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A CATALOGUE  
OF  
LIBRARY  
AUSTRALIAN FOSSILS

(INCLUDING TASMANIA AND THE ISLAND OF TIMOR)

STRATIGRAPHICALLY AND ZOOLOGICALLY  
ARRANGED.

BY

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HON. CORRESPONDENT, BALLARAT SCHOOL OF MINES,

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## PREFACE.

THE *Catalogue of Australian Fossils* was commenced in 1868 in conjunction with my friend and former colleague Mr Norman Taylor, merely with the view of carrying out our duties in connection with the Geological Survey of Victoria, but circumstances over which we had no control rendered the abandonment of the work necessary. It was not again resumed until 1871, then by myself, and through the interest evinced by several scientific friends I have been induced to continue the compilation, during leisure moments, until it has assumed its present proportions.

The subject of Australian Geology and Palæontology is even now only in its infancy, notwithstanding the rapid strides which have been made within the last few years. It naturally results therefore, that although the number of species to be listed may be small when compared with those of other countries, still, often from the absence of definite information, the compilation has been attended with no ordinary difficulties. This will, I hope, to some extent tend to explain the many imperfections to be found in the 'Catalogue,' and of which no one is more conscious than I am. The present is, so far as I know, the first attempt at a complete list of Australian fossil Organic Remains, and notwithstanding the daily increasing number of species to be still more largely augmented in the future, I trust that the present effort will be found a tolerably faithful record of Australian Palæontology up to the year 1878.

I have endeavoured to make the Catalogue as complete as circumstances will permit, but there are a few papers by colonial authors to which I have not been able to obtain access, and in consequence the data contained in them have been omitted, or imperfectly given.

In the great field of Australian Geology and Palæontology I can lay claim to no greater title than that of a compiler, but as such, I would offer my tribute of respect and admiration

for the never-tiring zeal and energy, the self-denial of all home-comforts, and risk of health displayed by the pioneers of our common science in the Australian colonies, and of whose work, often carried on under the most adverse circumstances, the Catalogue is an epitome.

I refer to such men as the late S. Stutchbury, the late Rev. W. B. Clarke, F.R.S., the late Capt. Sturt, the late Sir T. L. Mitchell, the late L. Leichhardt, A. R. C. Selwyn, F.R.S., C. Gould, F.G.S., Prof. F. McCoy, F.G.S., the late W. Blandowski, Baron F. von Mueller, the late C. D'Oyly, H. Aplin, Norman Taylor, G. H. F. Ulrich, F.G.S., R. B. Smyth, F.G.S., the late R. Daintree, F.G.S., C. S. Wilkinson, F.G.S., Rev. J. E. T. Woods, F.G.S., R. A. F. Murray, H. Y. L. Brown, A. W. Howitt, F.G.S., G. Krefft, and others.

The object of the *Catalogue of Australian Fossils* is first, to give as complete a list as possible of the fossil Organic Remains of the Australian Continent, arranged in Stratigraphical and Zoological order; secondly, to indicate all the descriptions, figures, and more important references to each of the species; and thirdly, to point out the principal localities.

In carrying out this scheme it has been found most convenient to divide the Catalogue into five stratigraphical subdivisions, viz., Silurian, Middle and Upper Palæozoic (including the Devonian and Carboniferous), Mesozoic, Tertiary, and Post-Tertiary, in each of which the genera and species are arranged zoologically in classes, and alphabetically in order, for convenient reference.

Each page is subdivided vertically into four columns.

The first (that on the left hand of the reader) contains the name of the species and their authors; the second column is intended for the stratigraphical subdivisions of the respective sections in which the species occurs; the third and largest column is devoted to the bibliographical references, whilst the fourth contains the localities.

At the head of each page, on the left hand, is given in dark type and within brackets the name of the class to which all the genera contained in that page belong, whilst, in the corresponding corner, on the opposite side of the page, is similarly given the geological section of the work.

After the name of each genus is given that of its author

and the date, then follow within brackets one or more references to descriptions of the genus in question, by its author or other writers as the case may be ; but it is to be universally understood that the first reference after a genus is that of its original description or enunciation, so far as my own researches have enabled me to ascertain. Here and there a few synonyms are given, and always the order or family to which the genus belongs.

The references to the species are of two kinds ; first, those to works in which a detailed description or figure is to be found, denoted by an \* placed before them ; secondly, those in which a passing reference only is made to the species, such for instance as the announcement of the first discovery of it in Australian rocks, or of a new locality. When a species is common both to the strata of Australia and those of any other country I have invariably given quotations showing its synonymy and history previous to its discovery in the former. Unless denoted by the sign ! placed after it, every reference has been personally verified and referred to ; any errors therefore which may be found are my own, and have arisen during transcription, or are typographical.

The abbreviations used are those usually adopted in works of reference, but in case they should not at once be apparent to the reader, I have given a list of all the Works, Papers, and Reports used and consulted in the compilation, arranged alphabetically under the authors' names, so that the full title of almost every quotation can at once be seen.

In the locality column the respective Colonies in which the places mentioned are situated, are indicated by an abbreviation in italics : thus, *N. S. Wales* (= New South Wales), *Vict.* (= Victoria, formerly Australia Felix), *S. A.* (= South Australia), *W. A.* (= Western Australia), *Qu.* (= Queensland), *Tas.* (= Tasmania).

It affords me great pleasure to offer my sincere thanks to those gentlemen who have rendered me assistance. To the father of Australian Geology, the late Rev. W. B. Clarke, F.R.S., I am indebted for information on many points connected with Colonial Geology, and the general interest he took in my work. Similarly, I am under obligations to Messrs R. B. Smyth and N. Taylor (Melbourne), C. S. Wilkinson (Sydney), R. M. John-

ston (Hobart Town), and the Rev. J. E. Tenison Woods (Sydney). I am indebted to Profs. Owen, F.R.S., T. Rupert Jones, F.R.S., G. Busk, F.R.S., P. M. Duncan, F.R.S., H. A. Nicholson, F.G.S., and G. S. Brady, Messrs T. Davidson, F.R.S., W. Carruthers, F.R.S., and H. B. Brady, F.R.S., Drs R. H. Traquair, F.G.S., H. Woodward, F.R.S., and I. B. Balfour, F.G.S., for information connected with their special subjects. To Messrs G. Sharman, E. T. Newton, F.G.S., and R. B. Newton (*Mus. Pract. Geology*), W. S. Dallas (*Geol. Soc. Lond.*), and C. O. Waterhouse (*Brit. Mus.*), I am indebted for assistance in unravelling obscure points in synonymy. Prof. L. G. de Koninck has placed me under many obligations by his courtesy in forwarding advanced proofs of his fine work on the Australian Palæozoic Fossils, by means of which I have been able to complete the Catalogue at a much earlier date than otherwise could have been done.

Through the kindness of Prof. Geikie, F.R.S., I have had afforded me the opportunity of consulting a large number of works in the Library of the University of Edinburgh; and I am also under obligations for literary assistance to Prof. F. W. Rudler, F.G.S., and Messrs W. Rupert Jones (*Geol. Soc. Lond.*), H. B. Wheatley (*R. Soc. Lond.*), T. W. Newton (*R. School Mines*), R. Kippist (*Linn. Soc. Lond.*), J. Gordon (*R. Soc. Edinb.*), and F. H. Waterhouse (*Zool. Soc. Lond.*). Lastly, the encouragement afforded me by my kind friends Dr J. J. Bigsby, F.R.S., and Mr R. L. Jack, F.G.S. (Brisbane), and my father, has assisted me to surmount many difficulties.

To the liberality and consideration of the Syndics of the Cambridge University Press the publication of the *Catalogue of Australian Fossils* is due, whilst to my friend the Rev. Professor T. G. Bonney, F.G.S., my warmest thanks must be tendered for bringing the manuscript under their notice.

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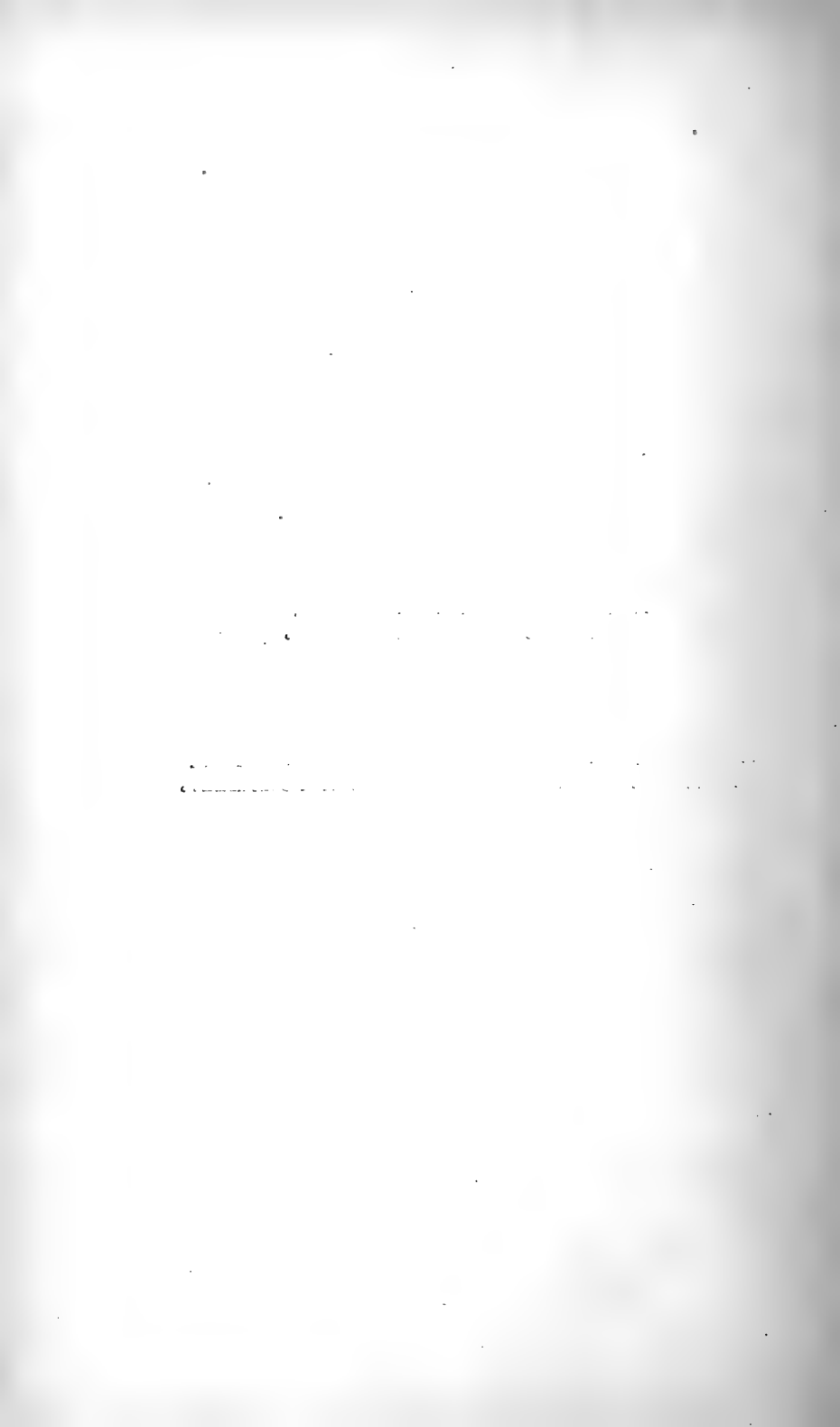
## CORRIGENDA.

- p. 5, Genus DICHOGAPTUS, after pars, read 1861 (Geologist, iv. p. 74; Quart. Jour. Geol. Soc. 1863, xix. p. 139).
- p. 13, Genus PLEURODICTYUM, should follow after *Plasmopora*, and before *Propora*.
- p. 14, Genus RHIZOPHYLLUM should come before *Striatopora*.
- p. 19, 20, 21, and 23. In Locality column, for Bruce's Ck. nr. Mt. Macedon, read Bruce's Ck. nr. Mt. Disappointment.
- p. 23, Genus TREMATOSPIRA, for *T. lispleura*, read *T. leiopleura*.
- p. 30, GLOSSOPTERIS BROWNIANA, line 13, for pt. 3, p. 13, read pt. 3, t. 3.
- p. 36, FAVOSITES OVATA, line 16, for t. 3, f. 5, read t. 7, f. 5.
- p. 41, BRACHYMETOPUS STRZELECKII, line 4, for t. 3, read t. 4.
- p. 42, POLYCOPE SIMPLEX, line 5, for t. 17, f. 5, read t. 24, f. 7.
- p. 43, DENDRICOPORA HARDYI, line 2, for f. 1, read f. 4.
- „ FENESTELLA MULTIPORATA, line 4, for f. 4, read f. 2.
- p. 44, FENESTELLA PLEBEIA, line 19, for f. 2, read f. 1.
- p. 45, PROTORETEPORA AMPLA, line 16, for f. 4, read f. 5.
- p. 46, RETEPORA LAXA, line 2, for f. 5, read f. 6.
- „ ATHYRIS PLANOSULCATA, lines 8 and 9, for pt. 2, p. 224, t. 11, read pt. 3, p. 222, t. 9.
- p. 48, CHONETES LAGUESSIANA, line 14, for pt. 2, read pt. 3.
- „ CHONETES PAPILIONACEA, line 9, for pt. 2, read pt. 3.
- „ CYRTINA SEPTOSA, line 7, for pt. 2, read pt. 3.
- „ DISCINA AFFINIS, line 6, for t. 3, read t. 4.
- p. 51, PRODUCTUS BRACHYTHÆRUS, line 13, for t. 3, read t. 4.
- p. 57, SPIRIFERA LATA, line 1, for t. 3, read t. 4.
- „ SPIRIFERA OVIFORMIS, line 5, for t. 3, read t. 4.
- p. 103, bottom line of page, for *P. furcata*, read *P. farcta*.



LOWER PALÆOZOIC.

LOWER AND UPPER SILURIAN.



# A STRATAGRAPHICAL CATALOGUE

OF

## AUSTRALIAN FOSSILS.

(Plantæ—Rhizopoda.)

(Silurian.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

*Kingdom*—Plantæ. *Section*—Cryptogamiæ. *Order*—Algae.

Genus **Fucoides**, Brongniart, 1823. (Mém. Soc. Hist. Nat. r. p. 308.)

|                    |          |                                                                                 |                                     |
|--------------------|----------|---------------------------------------------------------------------------------|-------------------------------------|
| <i>F. sp. ind.</i> | Up. Sil. | Blandowski, Trans. Phil. Institute Vict. 1858, II. p. 144, figs. 2980 and 2981. | Botanical Gardens, Melbourne, Vict. |
|--------------------|----------|---------------------------------------------------------------------------------|-------------------------------------|

Genus **Spirophyton**, Hall, 1863. (16th Annual Rep. N. Y. State Cab. Nat. Hist. app. D, p. 78.)

|                                     |                          |                                                           |                        |
|-------------------------------------|--------------------------|-----------------------------------------------------------|------------------------|
| S.? <i>Cauda-Phasiani</i> , De Kon. | Up. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 62, t. 4, f. 1. | Duntroon, N. S. Wales. |
|-------------------------------------|--------------------------|-----------------------------------------------------------|------------------------|

*Kingdom*—Animalia. *Sub-kingdom*—Protozoa. *Class*—Rhizopoda. *Order*—Foraminifera.

Genus **Receptaculites**, DeFrance, 1824. (Prodrome, p. 119; Dict. Sci. Nat. 1827, XLV. p. 5.)—*Orbitolitidæ*.

|                                   |           |                                                                                                        |                                           |
|-----------------------------------|-----------|--------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>R. Australis</i> , Salter.     | Up. Sil.? | *Geol. Survey, Canada, Dec. I. p. 47, t. 10, f. 8—10.                                                  | Yarradong, near Yass Plains, N. S. Wales. |
| <i>R. Clarkii</i> , Salter (ms.). | Up. Sil.? | Clarke's S. Goldfields, 1860, p. 286; Hochstetter, Sitz. k. Akad. Wissensch. Wien, 1859, xxxv. p. 335. |                                           |

*Order*—Spongida.

Genus **Stromatopora**<sup>1</sup>, Goldfuss, 1826. (Petrefacta I. p. 21; Blainville, 1830, Dict. Sc. Nat. LX. p. 378.) = *Caunopora*, Phillips; *Sparsispongia*. D'Orbigny, *Amorphospongia*.

|                               |          |                                                                                        |                          |
|-------------------------------|----------|----------------------------------------------------------------------------------------|--------------------------|
| <i>S. striatella</i> , D'Orb. | Up. Sil. | Prodrome de Pal. 1849, I. p. 51; De Kon, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 10. | Bell River, N. S. Wales. |
|-------------------------------|----------|----------------------------------------------------------------------------------------|--------------------------|

<sup>1</sup> This genus is considered by some writers to be a Sponge, by others a Foraminifer.

## (Hydrozoa.)

## (Silurian.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

*Sub-kingdom*—Cœlenterata. *Class*—Hydrozoa.

*Rhabdophora* et *Cladophora*.

Genus **Climacograptus**, Hall, 1865. (Geol. Survey, Canada, Dec. II. p. 111.)  
*Graptolitidae*.

|                                   |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |
|-----------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <i>C. bicornis</i> , Hall.        | L. Sil.            | <i>Graptolithus</i> , *Pal. New York, 1847, i. p. 268, t. 73, f. 2; <i>Diplograptus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Climacograptus</i> , Hall, *Geol. Survey, Canada, 1865, Dec. II. p. 111; <i>Diplograptus</i> , Bigsby, Thesaurus Sil. 1868, p. 83; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>D. (Climacograptus)</i> , <i>id.</i> *Geol. Survey, Vict. Dec. I. 1874, p. 12, t. 1, f. 8.                     |                                                                 |
| <i>C. quadrangularis</i> , M'Coy. |                    | Vide <i>C. rectangularis</i> , M'Coy?                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |
| <i>C. rectangularis</i> , M'Coy.  | L. Sil. (Ll. Fl.). | *Brit. Pal. Foss. 1851, p. 8, t. 1, B. f. 8; Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 534; <i>id.</i> M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; ? <i>D. quadrangularis</i> , M'Coy, <i>ibid.</i> 1867, xx. p. 199; <i>id. et D. rectangularis</i> , Bigsby, Thesaurus Sil. 1868, pp. 84 and 200; <i>D. rectangularis</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 11, t. 1, f. 7. | Saltwater River, W. of Bulla; Holden; Didie R. Gippsland, Vict. |

Genus **Cœnograptus**, Hall, 1867. (20th Annual Report, N. Y. State Cab. Nat. Hist. pp. 217 and 226) = *Helicograptus*, Nicholson.—*Graptolitidae*.

|                            |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>C. gracilis</i> , Hall. | L. Sil. | <i>Graptolithus</i> , *Pal. N. York, 1847, i. p. 274, t. 74, f. 9; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid.</i> <i>id.</i> 1867, xx. p. 200; <i>Dichograptus</i> , Bigsby, Thesaurus Sil. 1868, p. 82; <i>Cœnograptus</i> , Hall, 20th Report, State Cab. N. York, 1867, p. 226; <i>Graptolites</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>G. (Didymo.)</i> , <i>id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 35, t. 20, f. 9. | N.W. of Bulla, near Melbourne. |
|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|

## (Hydrozoa.)

## (Silurian.)

| Genus and Species.                                                                                                      | Strat.<br>Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Localities, &c.                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Genus <b>Dichograptus</b> , <i>Salter</i> (pars), 1863. (Quart. Jour. Geol. Soc. xix. p. 139.)<br><i>Graptolitidæ</i> . |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                             |
| <b>D. octobrachiatus</b> ,<br><i>Hall</i> .                                                                             | L. Sil. (Ll.<br>Fl.).  | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 122; <i>id. ibid.</i> *Dec. II. p. 96, t. 7; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograptus</i> , <i>ibid. id.</i> 1867, xx. p. 200; <i>Dichograpsus</i> , Nicholson, *Quart. Jour. Geol. Soc. 1868, xxiv. p. 129, t. 5, figs. 1 and 2; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 82 and 200; <i>Didymograpsus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>G. (Didymo.)</i> , <i>ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 17, t. 2, f. 4. | Castlemaine; Watch-box Ranges, Glenhope, and Piper's Ck.; E. bank of Saltwater River, near Melbourne, Vict. |
| Genus <b>Dicranograptus</b> , <i>Hall</i> , 1865. (Geol. Survey, Canada, Dec. II. p. 112.)<br><i>Graptolitidæ</i> .     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                             |
| <b>D. ramosus</b> , <i>Hall</i> .                                                                                       | L. Sil. (Ll.<br>Fl.).  | <i>Graptolithus</i> , *Pal. New York, 1847, I. p. 270, t. 73, f. 3; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1862, ix. p. 138; <i>Dicranograptus</i> , Hall, *Geol. Survey, Canada, Dec. II. p. 112; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 84 and 200; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Cladograpsus</i> , <i>id.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 33, t. 20, f. 2.                                                                   | W. of Bulla, near Melbourne; Bendigo ( <i>Bigsby</i> ), Vict.                                               |
| Genus <b>Didymograptus</b> , <i>M'Coy</i> , 1851. (Brit. Pal. Foss. p. 9.)— <i>Graptolitidæ</i> .                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                             |
| <b>D.? caduceus</b> , <i>Salter</i> .                                                                                   | L. Sil. (Ll.<br>Fl.).  | *Quart. Jour. Geol. Soc. 1855, ix. p. 87, f. 1; <i>ibid.</i> 1863, xix. p. 137, f. 13, a and b; M'Coy, Ex. Essay, 1861, p. 161; <i>ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>ibid. id.</i> 1867, xx. p. 200; Bigsby, Thesaurus Sil. 1868, p. 82; M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>T. bryonoides</i> (pars), Etheridge, Annals Nat. Hist. xiv. 1874, p. 2, t. 3, figs. 3 and 4; <i>G. (Didymo.) caduceus</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 30, t. 20, figs. 3—5.                                                                                                     | Castlemaine; Barwon Creek; Baynton's Range; Newham, &c. Vict.                                               |

| (Hydrozoa.)                            |                     | (Silurian.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |
|----------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Genus and Species.                     | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                                                                                            |
| <i>D. bryonoides</i> , Hall.           |                     | Vide <i>Tetragraptus bryonoides</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |
| <i>D.?</i> <i>denticulatus</i> , Hall. | L. Sil.             | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 132; <i>id. ibid.</i> *Dec. II. p. 88, t. 4, figs. 12—16; <i>Didymograpsus</i> , Bigsby, Thesaurus Sil. 1868, p. 82.                                                                                                                                                                                                                                                                                                                                              | Melbourne ( <i>Bigsby</i> ).                                                                               |
| <i>D. extensus</i> , Hall.             | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 132; <i>id. ibid.</i> Dec. II. p. 80, t. 2, figs. 11—16; <i>G. (Didymo.)</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 29, t. 20, f. 1.                                                                                                                                                                                                                                                                                                                     | Parman Ck., Vict.                                                                                          |
| <i>D.?</i> <i>fruticosus</i> , Hall.   | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. [1857] 1858, p. 128; <i>id. ibid.</i> *Dec. II. p. 90, t. 5, figs. 6—8, t. 6, figs. 1—3; <i>G. et D. Pantoni</i> (M'Coy. ms.), Salter, Quart. Jour. Geol. Soc. 1863, xix. pp. 138 and 140; <i>G. (Didymo.) fruticosus</i> , M'Coy, *Geol. Survey, Vict. 1874, Dec. I. p. 13, t. 1, figs. 9—14; <i>D.?</i> <i>fruticosus</i> , Etheridge, Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 19; ? <i>D. Pantoni</i> (M'Coy. ms.), Etheridge, * <i>ibid.</i> p. 7, t. 3, figs. 21 and 22. | Bird Reef, Bendigo; Spring Plains; Loddon R.; E. bank of Salt-water R., near Melbourne; Castlemaine, Vict. |
| <i>D. furcatus</i> , Hall.             | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Pal. New York, 1847, p. 273, t. 74, f. 4 a—f; <i>Didymograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 82; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Cladograptus</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 34, t. 20, f. 7.                                                                                                                                                           | Melbourne ( <i>Bigsby</i> ).                                                                               |
| <i>D. Logani</i> , Hall.               |                     | Vide <i>Loganograptus Logani</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |
| <i>D. nitidus</i> , Hall.              | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 129; <i>id. ibid.</i> *Dec. II. 1865, p. 69, t. 1, figs. 1—9; <i>Didymograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>id.</i> Etheridge, *Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 20.                                                                                                                                                                                                       | Baynton's Range; Castlemaine, Vict.                                                                        |
| <i>D. octobrachiatus</i> , Hall.       |                     | Vide <i>Dichograptus octobrachiatus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                            |
| <i>D. Pantoni</i> , M'Coy (ms.).       |                     | Vide <i>D.?</i> <i>fruticosus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                            |
| <i>D. quadribachiatus</i> , Hall.      |                     | Vide <i>Tetragraptus quadribachiatus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                            |

## (Hydrozoa.)

## (Silurian.)

| Genus and Species.                                                                                                                                                  | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <i>D. serratulus</i> , Hall.                                                                                                                                        | L. Sil.             | <i>Graptolithus</i> , *Pal. New York, 1847, i. p. 274, t. 74, f. 5 a, b; <i>Didymograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid. id.</i> 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 83; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33.                                                                                                                                                            | Melbourne ( <i>Bigsby</i> ).                                                                     |
| Genus <i>Diplograptus</i> <sup>1</sup> , M'Coy, 1851 (Brit. Pal. Foss. pp. 3 and 7) = <i>Prionotus</i> , Hisinger; <i>Diprion</i> , Barrande.— <i>Graptolitiæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                  |
| <i>D. angustifolius</i> , Hall.                                                                                                                                     | L. Sil.             | *Pal. New York, 1859, iii. p. 515, figs. 1 and 2; Bigsby, Thesaurus Sil. 1868, p. 200.                                                                                                                                                                                                                                                                                                                                                                                                      | Bendigo ( <i>Bigsby</i> ).                                                                       |
| <i>D. bicornis</i> , Hall.                                                                                                                                          |                     | Vide <i>Climacograptus bicornis</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |
| <i>D. folium</i> , Hisinger <sup>2</sup> .                                                                                                                          |                     | Vide <i>Phyllograptus typus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |
| <i>D. mucronatus</i> , Hall.                                                                                                                                        | L. Sil. (Ll. Fl.).  | * <i>Graptolithus</i> , Pal. New York, 1847, i. p. 268, t. 73, f. 1 a—d; <i>Diplograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 83 and 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 10, t. 1, f. 5; <i>id.</i> Etheridge, *Annals Nat. Hist. 1874, xiv. p. 5, t. 3, figs. 14—17. | Watch-box Ranges, near Baynton's; Newham, near Lancefield; Bulla; Bendigo, <i>Vict.</i>          |
| <i>D. palmeus</i> , Barrande.                                                                                                                                       | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Grapt. de Bohême, 1850, p. 59, t. 3, figs. 1—4 and 7; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 200; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. Dec. ii. 1875, p. 32, t. 20, f. 6.                                                                                                                                                                | Bendigo ( <i>Bigsby</i> ).                                                                       |
| <i>D. pristis</i> , Hisinger.                                                                                                                                       | L. Sil. (Ll. Fl.).  | <i>Prionotus</i> , Leth. Suec. 1837, p. 114, t. 35, f. 5; <i>Diplograpsus</i> , Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 538; M'Coy, Ex. Essay, 1861, p. 160; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 83 and 200; <i>id.</i>                                                                                                                                                           | Parish of Bulla; N. of Lancefield; Parish of Darriwill; Sutherland's Creek; Holden, <i>Vict.</i> |

<sup>1</sup> Written *Diplograpsus* by M'Coy. The name was first used by Prof. M'Coy in the *Annals of Natural History* for October, 1850, but the genus was described in the first fasciculus of the above work, 1851.

<sup>2</sup> As this species, *Phyllo. typus*, Hall, and *D. ovatus*, Barr., are regarded only as varieties of one form by M'Coy, I have given the references under *P. typus*.

## (Hydrozoa.)

## (Silurian.)

| Genus and Species.                | Strat. Subdivision. | References.                                                                                                                                                                                             | Localities, &c. |
|-----------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <i>D. quadrangularis</i> , M'Coy. |                     | M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. *Dec. i. p. 11, t. 1, f. 6; ? <i>Diplograptus sp.</i> Etheridge junr., Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 18. |                 |
| <i>D. rectangularis</i> , M'Coy.  |                     | ?Vide <i>Climacograptus rectangularis</i> , M'Coy.                                                                                                                                                      |                 |
|                                   |                     | " " "                                                                                                                                                                                                   |                 |

Genus **Graptolithus**, *Linnaeus*, 1736. (Syst. Nat. 1st ed. p. 3; 12th ed. 1768, iii. p. 173.)  
*Graptolitidae.*

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|------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <i>G. fruticosus</i> , Hall.       |                 | Vide <i>Didymograptus fruticosus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                     |            |
| <i>G. gracilis</i> , Hall.         |                 | Vide <i>Cænograptus gracilis</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                         |            |
| <i>G. bryonoides</i> , Hall.       |                 | Vide <i>Tetragraptus bryonoides</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                      |            |
| <i>G. latus</i> , M'Coy.           |                 | Vide <i>Tetragraptus bryonoides</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                      |            |
| <i>G. Logani</i> , Hall.           |                 | Vide <i>Loganograptus Logani</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                         |            |
| <i>G. Ludensis</i> , Murchison.    |                 | ?Vide <i>G. priodon</i> , Bronn.                                                                                                                                                                                                                                                                                                                                                                                                 |            |
| <i>G. octobrachiatus</i> , Hall.   |                 | Vide <i>Dichograptus octobrachiatus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                  |            |
| <i>G. Pantoni</i> , M'Coy [ms.].   |                 | Vide <i>Didymograptus fruticosus</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                     |            |
| <i>G. priodon</i> , Bronn.         | L. and Up. Sil. | <i>Monoprion</i> , *Lethæa, Geog. i. p. 207, t. 1, f. 13, t. 5, f. 7; ? <i>G. Ludensis</i> , Murchison, *Silurian Syst. 1839, p. 694, t. 26, figs. 1, 2; <i>id.</i> M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid.</i> <i>id.</i> 1867, xx. p. 199; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 80; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33.                      | Melbourne. |
| <i>G. quadribrachiatum</i> , Hall. |                 | Vide <i>Tetragraptus quadribrachiatum</i> , Hall.                                                                                                                                                                                                                                                                                                                                                                                |            |
| <i>G. sagittarius</i> , His.       | L. Sil.         | <i>Prionotus</i> , Hisinger, *Leth. Suec. Supp. p. 114, t. 35, f. 6; <i>Graptolithus</i> , Hall, *Pal. New York, 1847, i. p. 272, t. 74, f. 1; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid.</i> <i>id.</i> 1867, xx. p. 199; <i>Graptolithus</i> , Bigsby, Thesaurus Sil. 1868, p. 81; <i>Graptolites</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33. |            |
| <i>G. tenuis</i> , Portlock.       | L. Sil.         | *Geol. Rept. Lond. 1843, p. 319, t. 19, f. 7; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id.</i>                                                                                                                                                                                                                                                                                                                    |            |



## (Hydrozoa.)

## (Silurian.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                                                      | Localities, &c. |
|--------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                    |                     | <i>ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Graptolithus</i> , Bigsby, Thesaurus Sil. 1868, p. 81. |                 |

Genus **Loganograptus**, Hall, 1867. (20th Rept. State Cab. New York, p. 226.)

*Graptolitidæ.*

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| <b>L. Logani</b> , Hall. | L. Sil. (Ll. Fl.). | <i>Graptolithus</i> , *Pal. New York, 1859, iii. p. 502, figs. 1, 2 and 3; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i> , <i>ibid.</i> 1867, xx. p. 200; <i>Dichograpsus</i> , Bigsby, Thesaurus Sil. 1868, pp. 82 and 200; <i>Loganograptus</i> , Hall, 20th Rept. N. Y. State Cab. Nat. Hist. 1867, p. 226; <i>Didymograpsus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymo.) Logani</i> , var. <i>Australis</i> , <i>ibid.</i> *Geol. Survey, Vict. Dec. i. p. 18, t. 2, f. 6; <i>Loganograptus</i> , Etheridge, *Annals Nat. Hist. 1874, xiv. p. 4, t. 3, figs. 11 and 12. | Castlemaine; Newham, nr. Lancefield; Spring Plains; Kangaroo Creek; Parish of Darriwill; Sutherland's Ck.; Leigh River, nr. Cargarie Creek, Vict. |
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Genus **Phyllograptus**, Hall, 1858. (Geol. Survey, Canada, Rept. 1857, p. 137.)

*Graptolitidæ.*

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|-------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P. typus</b> , Hall. | L. Sil. (Ll. Fl.). | *Geol. Surv. Canada, Rept. (1857) 1858, p. 137; <i>ibid.</i> *Dec. ii. 1865, p. 119, t. 15, figs. 1—12; M'Coy, Ex. Essay, 1861, p. 161; <i>D. folium</i> , <i>id. ibid.</i> ; <i>P. typus</i> , <i>id.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>D. folium</i> , <i>id. ibid.</i> ; <i>P. typus</i> , <i>id. ibid.</i> 1867, xx. p. 200; ? <i>D. folium</i> et <i>D. ovatus</i> , Bigsby, Thesaurus Sil. 1868, p. 83; <i>P. typus</i> , <i>P. folium</i> , et <i>P. ovatus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>P. folium</i> , var. <i>typus</i> , <i>id.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 7, t. 1, figs. 1—4; <i>P. typus</i> , Etheridge, *Annals Nat. Hist. 1874, xiv. p. 3, t. 3, figs. 9 and 10. | Newham, near Lancefield; Loddon River; Lerderg River, nr. M'Leod's Station; Saltwater River, near Melbourne; Flats of Kangaroo Creek, Vict. |
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Genus **Retiolites**, Barrande, 1850 (Grap. de Bohême, p. 68, note) = *Gladiolites*, Barr. 1850.—*Retioloidea*.

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| <b>R. Australis</b> , M'Coy. | Up. Sil. (W. Sh.). | *Geol. Survey, Vict. 1875, Dec. ii. p. 36, t. 20, f. 10. | N.W. of Keilor, Vict. |
|------------------------------|--------------------|----------------------------------------------------------|-----------------------|

Genus **Tetragraptus**, Salter, 1863. (Quart. Jour. Geol. Soc. xix. p. 140.)

*Graptolitidæ.*

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|------------------------------|--------------------|-------------------------------------------------------------------------|------------------------|
| <b>T. bryonoides</b> , Hall. | L. Sil. (Ll. Fl.). | <i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 126; | Castlemaine; Watch-box |
|------------------------------|--------------------|-------------------------------------------------------------------------|------------------------|

## (Hydrozoa.)

## (Silurian.)

| Genus and Species.                 | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Localities, &c.                                                                                                                                                                                             |
|------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |                     | <i>id. ibid.</i> *Dec. II. p. 84, t. 4, figs. 1—11; ? <i>G. latus</i> , Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 538; ? <i>id.</i> M'Coy, Ex. Essay, 1861, p. 161; <i>Tetragrapsus</i> , Salter, Quart. Jour. Geol. Soc. xix. pp. 137, 138, f. 8 a; ? <i>G. latus</i> , M'Coy, Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i> et ? <i>G. latus</i> , <i>id. ibid.</i> 1867, xx. p. 200; <i>G. bryonoides</i> et ? <i>G. latus</i> , Bigsby, Thesaurus Sil. 1868, pp. 80 and 200; <i>D. bryonoides</i> et ? <i>G. latus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymo.) bryonoides</i> et ? <i>G. latus</i> , M'Coy, *Geol. Survey, Vict. Dec. I. p. 16, t. 2, figs. 2, 3 and 5; <i>Tetragraptus bryonoides</i> (pars), Etheridge, Annals Nat. Hist. 1874, xiv. p. 1, t. 3, figs. 1 and 2; ? <i>G. latus</i> , <i>ibid. id.</i> p. 7, t. 3, f. 23. | Ranges, near Baynton's; Spring Plains; Barwon Creek, near Griffith and Green's Station; Glenhope and Piper's Creek; Kangaroo Creek; Sutherland's Creek; Parish of Darriwill; Parish of Cool-Barghurk, Vict. |
| <i>T. quadribrachiatus</i> , Hall. | L. Sil. (Ll. Fl.).  | <i>Graptolithus</i> , *Geol. Surv. Canada, Rept. (1857) 1858, p. 126; <i>id. ibid.</i> *Dec. II. p. 91, t. 5, figs. 1—5, t. 6, f. 6; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i> , <i>ibid. id.</i> 1867, xx. p. 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymograpsus)</i> , <i>ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 15, t. 2, f. 1; <i>Tetragraptus</i> , Etheridge, *Annals Nat. Hist. 1874, xiv. p. 3, t. 3, figs. 5—8.                                                                                                                                                                                                                                                                                                                                | Newham, near Lancefield; Bird Reef, Bendigo; Watch-box Ranges, near Baynton's; Spring Plains, Vict.                                                                                                         |

## Class—Actinozoa.

## Zoantharia Sclerodermata (Tabulata, Tubulosa, Perforata, Aporosa), and Rugosa.

Genus *Alveolites*, Lamarck, 1801. (Système d. Anim. s. Vertèb. p. 375.)  
*Tabulata.*

|                          |                   |                                                                                                                                                                                                                            |                         |
|--------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <i>A. oculata.</i>       |                   | Vide <i>Cerriopora</i> (Polyzoa).                                                                                                                                                                                          |                         |
| <i>A. rapa</i> , de Kon. | U. Sil. (Ludlow). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 18, Atlas, t. 1, f. 2.                                                                                                                                                           | Burrowang, N. S. Wales. |
| <i>A. repens</i> , Foug. | U. Sil. (Ludlow). | <i>Millepora</i> , *Dissertatio Corallia Balt. 1749, p. 19, plate, f. 25; <i>Alveolites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 203, t. 62, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 17. | Burrowang, N. S. Wales. |

## (Actinozoa.)

## (Silurian.)

| Genus and Species.                                                                                                                                      | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                                                                                                                                           | Localities, &c.                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Genus <b>Aulopora</b> , Goldfuss, 1826 (Petrefacta, i. p. 82) = <i>Tubiporites</i> , Schlotheim.<br><i>Tubulosa</i> ?                                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| <i>A. fasciculata</i> , de Kon.                                                                                                                         | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 14, Atlas, t. 1, f. 1.                                                                                                                                                                                                                                                                                                                                      | Bell River, N. S. Wales.              |
| Genus <b>Cyathophyllum</b> , Goldfuss, 1826. (Petrefacta, i. p. 54.) <i>Rugosa</i> .                                                                    |                         |                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| <i>C. articulatum</i> , Wahlenberg.                                                                                                                     | U. Sil. (Ludlow).       | <i>Madreporites</i> , *Nov. Act. Soc. Upsala, 1821, viii. p. 97; <i>Cyathophyllum</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 282, t. 67, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 13.                                                                                                                                                                                  | Burrowang, N. S. Wales.               |
| <i>C. binum</i> , Lonsdale.                                                                                                                             | L. Pal. (Up. Sil.).     | <i>Turbinolopsis</i> , *Sil. System, 1839, p. 692, t. 16 bis, f. 5; <i>Petraia</i> , McCoy, Sil. Foss. Ireland, 1862, p. 60; <i>Turbinolopsis</i> , Clarke, Quart. Jour. Geol. Soc. iv. p. 65.                                                                                                                                                                                                        | Colocolo and Bingaberri, N. S. Wales. |
| Genus <b>Cystiphyllum</b> , Lonsdale, 1839. (Silurian Syst. p. 691.) <i>Rugosa</i> .                                                                    |                         |                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| <i>C. Siluriense</i> , Lonsd.                                                                                                                           | U. Sil. (Ludlow).       | *Silurian Syst. 1839, p. 691, t. 16 bis, f. 1; Edwards and Haime, *Mon. Brit. Sil. Corals, p. 298, t. 72, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 12.                                                                                                                                                                                                                                 | Burrowang, N. S. Wales.               |
| Genus <b>Favosites</b> (pars), Lamarek, 1816 (Hist. d. Anim. s. Vertèb. ii. p. 204 <sup>1</sup> )<br>= <i>Calamopora</i> , Goldfuss.— <i>Tabulata</i> . |                         |                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| <i>F. aspera</i> , D'Orb.                                                                                                                               | U. Sil. (Ludlow).       | Prodrome de Pal. 1849, i. p. 49; Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 257, t. 60, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 21.                                                                                                                                                                                                                                         | Boree, N. S. Wales.                   |
| <i>F. cristata</i> , Blumenbach.                                                                                                                        | U. Sil. (Ludlow).       | <i>Madreporites</i> , *Comment. Soc. Scient. Gött. 1804, xv. p. 154, t. 3, f. 12; <i>F. polymorpha</i> , Lonsdale, *Silurian Syst. 1839, p. 684, t. 15, f. 2; <i>F. cristata</i> , Ed. and Haime, *Mon. Brit. Sil. Corals, 1854, p. 260, t. 61, figs. 3 and 4; <i>F. polymorpha</i> , Clarke, S. Goldfields, 1860, p. 285; <i>F. cristata</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 20. | Burrowang, N. S. Wales.               |
| <i>F. fibrosa</i> , Goldfuss.                                                                                                                           | U. Sil. (Ludlow).       | <i>Calamopora</i> , *Petrefacta, i. p. 82, t. 28, figs. 3 and 4; <i>Favosites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, pp. 217 and 261, t. 48, f. 3, t. 61, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 22.                                                                                                     | Limekilns, N. S. Wales.               |

<sup>1</sup> The name simply was first introduced in the *Cours de Zoologie*, 1812.

## (Actinozoa.)

## (Silurian.)

| Genus and Species.                     | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                       | Localities, &c.                      |
|----------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>F. Forbesi</i> , Edwards and Haime. | U. Sil. (Ludlow).   | *Mon. Brit. Sil. Corals, 1854, p. 258, t. 60, f. 2, a—g; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 20.                                                                                                                                                                                                                                    | Burrowang, N. S. Wales.              |
| <i>F. Gothlandica</i> , Fougé.         | U. Sil. (Ludlow).   | <i>Corallum</i> , *Dissertatio Corallia Balt. 1749, p. 39, plate 4, fig. 27; <i>Favosites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 256, t. 60, f. 1; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1848, rv. p. 65; <i>id. ibid.</i> S. Goldfields, 1860, p. 258; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 22. | Yass Plains; Burrowang, N. S. Wales. |
| <i>F. multipora</i> , Lonsdale.        | U. Sil. (Ludlow).   | *Silurian Syst. 1839, p. 683, t. 15 bis, f. 5; <i>F. multipora?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 21.                                                                                                                                                                                                                         | Limekilns, N. S. Wales.              |
| <i>F. polymorpha</i> , Lonsdale.       |                     | Vide <i>F. cristata</i> .                                                                                                                                                                                                                                                                                                                         |                                      |

Genus *Halysites*<sup>1</sup>, Fischer, 1813 (Zoognosia, Tab. Synop. 3rd ed. i. p. 387)  
= *Catenipora*, Lamarck, 1816.—*Tabulata*.

|                                  |                   |                                                                                                                                                                                                                            |                          |
|----------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>H. escharoides</i> , Lamarck. | U. Sil. (Ludlow). | <i>Catenipora</i> , Hist. d. Anim. s. Vertèb. 1816, ii. p. 207; <i>Halysites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 272, t. 64, f. 2; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 16. | Wellington, N. S. Wales. |
|----------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|

Genus *Heliolites*, Dana, 1846 (Zooph. U. S. Exploring Exped. p. 541)<sup>2</sup>  
= *Palæopora*, McCoy; *Geoporites*, D'Orb.—*Tabulata*.

|                                   |                     |                                                                                                                                                                                                                                                                                                                                               |                         |
|-----------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <i>H. interstinctus</i> , Linn.   | L. Pal. (Up. Sil.). | <i>Madrepurites</i> , Systema, 1767, 12th ed. p. 1276; <i>Palæopora</i> , McCoy, *Brit. Pal. Foss. 1851, p. 15; <i>Heliolites</i> , Edwards and Haime, *Polyp. Foss. Terr. Pal. p. 214; <i>id. ibid.</i> *Mon. Brit. Sil. Corals, 1854, p. 249, t. 15, f. 9; <i>Palæopora</i> , McCoy in Couchman's Progress Rept. 1877, iv. pp. 156 and 158. | Waratah Bay, Vict.      |
| <i>H. megastoma</i> , McCoy.      | U. Sil. (Ludlow).   | <i>Porites</i> , *Sil. Foss. Ireland, 1862, p. 62, t. 4, f. 19; <i>Palæopora</i> , *Brit. Pal. Foss. 1851, p. 16, t. 1 c. f. 4; <i>Heliolites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 251, t. 58, f. 2, a—d; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 24.                                              | Burrowang, N. S. Wales. |
| <i>H. Murchisoni</i> , Ed. and H. | U. Sil. (Ludlow).   | *Mon. Brit. Sil. Corals, 1854, p. 250, t. 57, f. 6, a—c; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 25.                                                                                                                                                                                                                                | Burrowang, N. S. Wales. |

<sup>1</sup> Written "*Alyssites*" by Fischer.

<sup>2</sup> This generic name appears to have been first used by Guettard (*Mémoires*, 1770, t. III, p. 454).

## (Actinozoa.)

## (Silurian.)

| Genus and Species.                                                                                                                          | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                                                                                                                                                                           | Localities, &c.                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Genus <b>Monticulipora</b> , <i>D'Orbigny</i> , 1849 (Prodrome de Pal. i. p. 25)<br>= <i>Nebulipora</i> , <i>M'Coy</i> .— <i>Tabulata</i> . |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>M.?</i> <i>Bowerbanki</i> , <i>Ed.</i> and <i>H.</i>                                                                                     | U. Sil. (Up. Llandov.). | *Mon. Brit. Sil. Corals, 1854, p. 268, t. 63, f. 1, <i>a—c</i> ; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 16.                                                                                                                                                                                                                                                                                                                | Rockflat Creek, N. S. Wales.         |
| <i>M. pulchella</i> , <i>Ed.</i> and <i>H.</i>                                                                                              | U. Sil. (Ludlow).       | *Mon. Brit. Foss. Corals, 1854, p. 267, t. 62, f. 5, <i>a, b</i> ; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 17.                                                                                                                                                                                                                                                                                                              | Burrowang; Bell River, N. S. Wales.  |
| Genus <b>Omphyma</b> , <i>Rafinesque</i> and <i>Clifford</i> , 1820. (Ann. d. Sc. Phys. Bruxelles, v. p. 235.) <i>Rugosa</i> .              |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>O. Murchisoni</i> , <i>Ed.</i> and <i>H.</i>                                                                                             | U. Sil. (Ludlow).       | *Mon. Brit. Sil. Corals, 1851, p. 289, t. 67, f. 3, <i>a, b</i> ; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 12.                                                                                                                                                                                                                                                                                                               | Burrowang, N. S. Wales.              |
| Genus <b>Palæopora</b> , <i>M'Coy</i> , 1849. (Annals Nat. Hist. iii. p. 129.)<br>Vide <i>Heliolites</i> , <i>Dana</i> .                    |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>P. interstincta</i> , <i>Linn.</i>                                                                                                       |                         | Vide <i>Heliolites interstinctus</i> .                                                                                                                                                                                                                                                                                                                                                                                                |                                      |
| Genus <b>Plasmopora</b> , <i>Edwards</i> and <i>Haime</i> , 1849. (Comptes Rendus, xxx. p. 262.)<br><i>Tabulata</i> .                       |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>P. petaliformis</i> , <i>Lonsdale</i> .                                                                                                  | U. Sil. (Ludlow).       | <i>Porites</i> , *Silurian Syst. 1839, p. 687, t. 16, f. 4; <i>Plasmopora</i> , <i>Ed.</i> and <i>H.</i> *Mon. Brit. Sil. Corals, 1854, p. 253, t. 39, f. 1, <i>a—c</i> ; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 24.                                                                                                                                                                                            | Bell River, N. S. Wales.             |
| Genus <b>Propora</b> , <i>Edwards</i> and <i>Haime</i> , 1849. (l. c. p. 262.) <i>Tabulata</i> .                                            |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>P. tubulata</i> , <i>Lonsdale</i> .                                                                                                      | U. Sil. (Ludlow).       | <i>Porites</i> , *Silurian Syst. 1839, p. 687, t. 16, f. 3; <i>Propora</i> , <i>Ed.</i> and <i>H.</i> *Mon. Brit. Sil. Corals, 1854, p. 255, t. 59, f. 3, <i>a, b</i> ; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 23.                                                                                                                                                                                              | Bell River, N. S. Wales.             |
| Genus <b>Pleurodictyum</b> , <i>Goldfuss</i> , 1829. (Petrefacta, i. p. 113.)                                                               |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>P. megastomum</i> , <i>M'Coy</i> .                                                                                                       | U. Sil.                 | Annals Nat. Hist. 1867, xx. p. 201, note; Bigsby, Thesaurus Sil. 1868, p. 192; <i>M'Coy</i> , Smyth's Progress Rept. 1874, p. 34.                                                                                                                                                                                                                                                                                                     | Upper Yarra District, Vict.          |
| Genus <b>Ptychophyllum</b> , <i>M. Edwards</i> and <i>Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxix.) <i>Rugosa</i> .         |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| <i>P. patellatum</i> , <i>Schlotheim</i> .                                                                                                  | U. Sil. (Ludlow).       | <i>Fungites</i> , Petrefacta, 1820, p. 347; <i>Strombodes plicatus</i> , <i>Lonsdale</i> , *Silurian Syst. 1839, p. 691, t. 16 bis, f. 4; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. rv. p. 65; <i>P. patellatum</i> , <i>Ed.</i> and <i>H.</i> *Brit. Sil. Corals, 1854, p. 291, t. 67, f. 4; <i>P. plicatum</i> , Clarke, S. Goldfields, 1860, p. 285; <i>P. patellatum</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 11. | Yass Plains; Dangalong, N. S. Wales. |

## (Actinozoa—Echinodermata.)

(Silurian.)

| Genus and Species.                                                                                                                                              | Strat. Subdivision.     | References.                                                                                                                                                                                   | Localities, &c.             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Genus <i>Striatopora</i> , Hall, 1852. (Pal. N. York, II. p. 156.) <i>Tabulata</i> ?                                                                            |                         |                                                                                                                                                                                               |                             |
| <i>S. Australica</i> , de Kon.                                                                                                                                  | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 19, t. 1, f. 3, a.                                                                                                                                  | Yass, N. S. Wales.          |
| Genus <i>Strombodes</i> (pars), Schweigger, 1820 (Handb. d. Naturg. p. 418) = <i>Acervularia</i> , Lonsdale; <i>Actinocyathus</i> , D'Orbigny.— <i>Rugosa</i> . |                         |                                                                                                                                                                                               |                             |
| <i>S. diffluens</i> , Ed. and H.                                                                                                                                | U. Sil. (Up. Llandov.). | *Mon. Brit. Sil. Corals, 1854, p. 294, t. 71, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 10.                                                                                     | Maneroo, N. S. Wales.       |
| Genus <i>Syringopora</i> , Goldfuss, 1826 (Petrefacta, I. p. 75) = <i>Harmodites</i> , Fischer, 1828.— <i>Tabulata</i> .                                        |                         |                                                                                                                                                                                               |                             |
| <i>S. serpens</i> , Linn.?                                                                                                                                      | U. Sil. (Up. Llandov.). | <i>Tabipora</i> , Syst. Nat. 1767, ed. 12, p. 1271; <i>Syringopora</i> , Ed. and H. *Mon. Brit. Sil. Corals, 1854, p. 275, t. 65, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 15. | Deleget River, N. S. Wales. |
| Genus <i>Rhizophyllum</i> , Lindstrom, 1865. (Kongl. Vet. Akad. Förhandl. 1865, No. 5, p. 287.) <i>Rugosa</i> .                                                 |                         |                                                                                                                                                                                               |                             |
| <i>R.?</i> <i>interpunctatum</i> , de Kon.                                                                                                                      | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 61, t. 1, f. 10.                                                                                                                                    | Boree Cavern, N. S. Wales.  |

Sub-kingdom—Annuloida. Class—Echinodermata<sup>1</sup>.

Genus *Cyathocrinus*, Miller, 1821 (Nat. Hist. Crinoidea, p. 85) = *Encrinites*, Schlotheim, 1817.—*Crinoidea*, *Cyathocrinide*.

|                                                |          |                                                            |                  |
|------------------------------------------------|----------|------------------------------------------------------------|------------------|
| <i>C. pinnatus</i> , Blaudowski <sup>2</sup> . | Up. Sil. | <i>Cyathocrinites</i> , Trans. Phil. Soc. Vict. I. p. 122. | Up. Yarra, Vict. |
|------------------------------------------------|----------|------------------------------------------------------------|------------------|

Genus *Palæaster*, Hall, 1852. (Pal. New York, II. p. 247.) *Asteroidea*.

|                             |  |                           |  |
|-----------------------------|--|---------------------------|--|
| <i>P. Selwynii</i> , M'Coy. |  | Vide <i>Urasterella</i> . |  |
|-----------------------------|--|---------------------------|--|

Genus *Petraster*, Billings, 1858. (Geol. Surv. Canada, Dec. III. p. 79.) *Asteroidea*.

|                           |         |                                                                                                  |                                     |
|---------------------------|---------|--------------------------------------------------------------------------------------------------|-------------------------------------|
| <i>P. Smythi</i> , M'Coy. | U. Sil. | Smyth's Progress Rept. 1874, p. 34; *Geol. Survey, Vict. Dec. I. 1874, p. 41, t. 10, f. 1, a, b. | Moonee Ponds, nr. Flemington, Vict. |
|---------------------------|---------|--------------------------------------------------------------------------------------------------|-------------------------------------|

Genus *Tæniaster*, Billings<sup>3</sup>, 1858. (Geol. Surv. Canada, III. p. 80.) *Asteroidea*.

|                                    |         |                                     |                                 |
|------------------------------------|---------|-------------------------------------|---------------------------------|
| <i>T. Australis</i> , M'Coy (ms.). | U. Sil. | Smyth's Progress Rept. 1874, p. 34. | Melbourne, and Up. Yarra, Vict. |
|------------------------------------|---------|-------------------------------------|---------------------------------|

<sup>1</sup> We have on record indicated species of the genus *Actinoecrinus*, Miller. (Selwyn, Quart. Jour. Geol. Soc. 1858, XIV. p. 534; Bigsby, *Thesaurus*, 1868, pp. 18 and 19; Smyth's Progress Rept. p. 34.)

<sup>2</sup> Non *C. pinnatus*, Goldfuss, *Pet. Germ.* I. p. 190, t. 58, f. 7.

<sup>3</sup> Prof. Hall considers that there is a very close relation between this genus and *Protaster*, Forbes, and *Eugaster*, Hall (20th Ann. Report State Geol. Nat. Hist. N. York, 1867, p. 300).

## (Echinodermata—Crustacea.)

(Silurian.)

| Genus and Species.                                                                                                                             | Strat. Subdivision. | References.                                                                                                                                                                                              | Localities, &c.                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Genus <b>Urasterella</b> , <i>M'Coy</i> <sup>1</sup> , 1851 (Brit. Pal. Foss. p. 59) = <i>Stenaster</i> , Billings, 1858.— <i>Asteroidea</i> . |                     |                                                                                                                                                                                                          |                                    |
| <i>U. Selwyni</i> , <i>M'Coy</i> .                                                                                                             | U. Sil.             | <i>Palæaster</i> , Geol. Survey, Vict. $\frac{1}{2}$ sheet 4 S.W. note; <i>id.</i> Smyth's Progress Rept. 1874, p. 34; <i>Urasterella</i> , *Geol. Survey, Vict. Dec. 1. 1874, p. 42, t. 10, f. 2 and 3. | Nr. the Bald Hills, Kilmore, Vict. |

## Class—Crustacea.

Genus **Bronteus**, *Goldfuss*, 1839 (Nov. Act. Phys.-Med. Acad. Cæsareæ Leop.-Carol. Nat. Curios. xix. pt. 1. p. 360) = *Brontes*, Goldf.—*Trilobita*.

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|----------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <i>B. goniopeltis</i> , <i>de Kon.</i> | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 58, pl. 1, f. 10.                                                                         | Rock-flat Creek, N. S. Wales. |
| <i>B. Partschi</i> , <i>Bar.</i>       | U. Sil. (Ludlow).       | Notice Prélim. p. 60; *Syst. Sil. Bohm. 1. p. 870, t. 46, figs. 19—31; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 57. | Boree Cavern, N. S. Wales.    |

Genus **Calymene**, *Brongniart*, 1822. (Hist. Nat. Crust. Foss. pp. 6 and 9.) *Trilobita*.

|                                           |                         |                                                                                                         |                          |
|-------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------|--------------------------|
| <i>C. Blumenbachii</i> , <i>Brong.</i>    | U. Sil. (Up. Llandov.). | *Crust. Foss. 1822, p. 11, t. 1, f. 1 a—d; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 55. | Yarralumla, N. S. Wales. |
| <i>C. Macleayi</i> , <i>Salter</i> (ms.). |                         | Clarke, S. Goldfields, 1860, p. 286.                                                                    |                          |
| <i>C. tuberculata</i> <sup>2</sup> .      | U. Sil.                 | <i>M'Coy</i> , in Smyth's Progress Rept. 1874, p. 34.                                                   | Upper Yarra, Vict.       |

Genus **Caryocaris**, *Salter*, 1863. (Quart. Jour. Geol. Soc. xix. p. 139.) *Phyllopoda*.

|                                    |  |                                                  |
|------------------------------------|--|--------------------------------------------------|
| <i>C. Salteri</i> , <i>M'Coy</i> . |  | Vide <i>Hymenocaris Salteri</i> , <i>M'Coy</i> . |
|------------------------------------|--|--------------------------------------------------|

Genus **Cheirurus**, *Beyrich*, 1845 (Über Böhm. Trilob. p. 5) = *Ceraurus*, Green. *Trilobita*.

|                                          |                         |                                                                                               |                          |
|------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|--------------------------|
| <i>C. Murrayi</i> , <i>Salter</i> (ms.). |                         | Clarke, S. Goldfields, 1860, p. 286.                                                          |                          |
| <i>C. insignis</i> , <i>Beyrich</i> .    | U. Sil. (Up. Llandov.). | *Über Böhm. Trilob. p. 12, f. 1; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 48. | Yarralumla, N. S. Wales. |

Genus **Cromus**, *Barrande*, 1852. (Syst. Sil. d. Centre de la Bohême, 1. p. 821.) *Trilobita*.

|                                   |                         |                                                                                                                      |                          |
|-----------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>C. Bohemicus</i> , <i>Bar.</i> | U. Sil. (Up. Llandov.). | *l. c. p. 828, t. 43, figs. 15—17; <i>C. Bohemicus?</i> <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 53. | Yarralumla, N. S. Wales. |
|-----------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|

<sup>1</sup> Profs. Hall and *M'Coy* concur in the distinctness of this genus from *Palæaster*, Hall, and in its identity with *Stenaster*, Bill. (*op. cit.*, p. 282, and *Geol. Survey, Vict. Dec. 1. p. 42*), contrary to the opinion of Messrs Salter and Billings, both of whom referred such types to *Palæaster*.

<sup>2</sup> The author of this species is not mentioned; may it be intended for *C. tuberculosa*, Salter (*Mems. Geol. Surv. II. pt. 1. p. 342*)?

## (Crustacea.)

## (Silurian.)

| Genus and Species.                                                                                                                               | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                         | Localities, &c.                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| C. Murchisoni, <i>de Kon.</i>                                                                                                                    | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 54, t. 1, f. 9.                                                                                                                                                                                                                           | Yarralumla and Quadong, N. S. Wales.      |
| Genus <b>Dalmannia</b> , <i>Emmrich</i> , 1845. (Neues Jahrb. f. Miner. p. 40.) <i>Trilobita</i> .                                               |                         |                                                                                                                                                                                                                                                                                     |                                           |
| D. caudata, <i>Brün.</i>                                                                                                                         |                         | Vide <i>Phacops caudatus</i> .                                                                                                                                                                                                                                                      |                                           |
| Genus <b>Encrinurus</b> , <i>Emmrich</i> , 1845. (l. c. p. 42.) <i>Trilobita</i> .                                                               |                         |                                                                                                                                                                                                                                                                                     |                                           |
| E. Australis, <i>Salter</i> (ms.).                                                                                                               | Up. Sil.?               | Clarke, S. Goldfields, 1860, p. 286.                                                                                                                                                                                                                                                |                                           |
| E. Barrandei, <i>de Kon.</i>                                                                                                                     | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 51, pl. 1, f. 8.                                                                                                                                                                                                                          | Yarralumla, N. S. Wales.                  |
| E. punctatus, <i>Brünich.</i>                                                                                                                    | U. Sil. (Ludlow).       | *Neues Jahrb. f. Miner. 1845, p. 42; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 49.                                                                                                                                                                                          | Yass, N. S. Wales.                        |
| Genus <b>Entomis</b> , <i>Jones</i> , 1861. (Mems. Geol. Survey, Scotland, No. 32, p. 137.) <i>Ostracoda</i> .                                   |                         |                                                                                                                                                                                                                                                                                     |                                           |
| E. pelagica, <i>Barrande.</i>                                                                                                                    | U. Sil. (L. Llandov.).  | *Syst. Sil. Bohm. i. Supp. 1872, p. 515, t. 24, figs. 1—6; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 45.                                                                                                                                                                    | Yarralumla, N. S. Wales.                  |
| E. tuberosa, <i>Jones.</i>                                                                                                                       | U. Sil. (L. Llandov.).  | Salter, *Mem. Geol. Survey, Scotland, 32, p. 137, t. 2, f. 5; Jones, *Annals Nat. Hist. 1873, xi. p. 415; Woodward, Cat. Brit. Foss. Crust. 1877, p. 120.                                                                                                                           | Yarralumla, N. S. Wales.                  |
| Genus <b>Forbesia</b> , <i>M'Coy</i> , 1862. (Sil. Fossils, Ireland, p. 49.) <i>Trilobita</i> .                                                  |                         |                                                                                                                                                                                                                                                                                     |                                           |
| F. Euryceps, <i>M'Coy.</i>                                                                                                                       | U. Sil. (Wenlock).      | *Geol. Survey, Vict. Dec. iii. p. 17, t. 23, f. 10.                                                                                                                                                                                                                                 | Broadhurst Creek, Vict.                   |
| Genus <b>Harpes</b> , <i>Goldfuss</i> , 1839. (Nov. Act. Phys.-Med. Acad. Cæsareæ Leop. Carol. Cur. Nat. xix. pt. 1, p. 358.) <i>Trilobita</i> . |                         |                                                                                                                                                                                                                                                                                     |                                           |
| H. ungula, <i>Sternberg.</i>                                                                                                                     | U. Sil. (Ludlow).       | <i>Trilobites</i> , *Verhandl. Böhm. Mus. p. 52, t. 2, f. 1; <i>Harpes</i> , Barrande, *Syst. Sil. Boh. 1852, i. p. 347, t. 8, f. 9; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 59.                                                                               | Boree Cavern, N. S. Wales.                |
| Genus <b>Homalonotus</b> , <i>König</i> , 1820? (Icones Sectil. p. 4) = <i>Dipleura</i> , Green, <i>Trimerus</i> , Green.— <i>Trilobita</i> .    |                         |                                                                                                                                                                                                                                                                                     |                                           |
| H. Harrisoni, <i>M'Coy.</i>                                                                                                                      | U. Sil. (Up. Llandov.). | Annals Nat. Hist. 1867, xx. p. 198, Bigsby, Thesaurus Sil. 1868, p. 199; M'Coy, Smyth's Progress Rept. 1874, p. 34; <i>id.</i> *Geol. Survey, Vict. Dec. iii. 1876, p. 19, t. 23, f. 11 (? = <i>H. delphinocephalus</i> , Harrison (non Green), Trans. Roy. Soc. Vict. vii. p. 17). | Moonee Ponds Creek, near Melbourne, Vict. |



## (Crustacea.)

## (Silurian.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
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Genus **Hymenocaris**, *Salter*, 1853. (Brit. Ass. Rept. for 1852, pt. 2, p. 58.)  
*Phyllopoda*.

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|------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| H. <i>Salteri</i> , <i>M'Coy</i> . | L. Sil. | Ex. Essay, 1861, p. 161; <i>Annals Nat. Hist.</i> 1862, ix. p. 140; <i>id.</i> 1867, xx. p. 201; <i>Salter</i> , <i>Quart. Jour. Geol. Soc.</i> 1863, xix. p. 139; <i>Hymenocaris et Caryocaris</i> , <i>Bigsby</i> , <i>Thesaurus Sil.</i> 1868, pp. 73 and 200; <i>M'Coy</i> , <i>Smyth's Progress Rept.</i> 1874, p. 33; ? <i>Hymenocaris vermicauda</i> , <i>Hochstetter</i> , <i>Verhandl. K. K. Geol. Reichsanstalt</i> (Jahrbuch, 1861, xii.) p. 23. | Redesdale, <i>Vict.</i> |
|------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|

Genus **Illænus**, *Dalman*, 1826. (Kongl. Vet. Acad. Handl. för år 1826, p. 248.)  
*Trilobita*.

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| I. <i>Wahlenbergianus</i> , <i>Barr.</i> | U. Sil. (Ludlow). | * <i>Sil. Syst. Bohême</i> , i. p. 684, t. 34, f. 19—25; <i>I. Wahlenbergi?</i> de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 46. | Boree Caverns, <i>N. S. Wales</i> . |
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Genus **Lichas**, *Dalman*, 1826. (Kongl. Vet. Acad. Handl. för år 1826, p. 278.)  
= *Acanthopyge*, *Hawle and Corda*, 1847.—*Trilobita*.

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| L. <i>Australis</i> , <i>M'Coy</i> . | U. Sil. | * <i>Geol. Survey, Vict. Dec. iii.</i> p. 18, t. 22, f. 11.         | Woori-Yallock, <i>Vict.</i>          |
| L. sp. ind.                          | U. Sil. | de <i>Kon.</i> <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 57. | Rockflat Creek, <i>N. S. Wales</i> . |

Genus **Phacops**, *Emmrich*, 1839. (De *Trilob. Dissert.* p. 18; *Neues Jahrb.* 1845, p. 38.)—*Trilobita*.

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|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| P. <i>caudatus</i> , <i>Brünich</i> .        | U. Sil. | <i>Burmeister</i> , * <i>Organ. Trilobites</i> , 1846, p. 94, t. 4, f. 9; <i>Dalmanina</i> , <i>M'Coy</i> , <i>Geol. Survey, Vict.</i> $\frac{1}{4}$ sheet 4, <i>S.W. note</i> ; <i>P. (Odonotchile)</i> , <i>id. ibid.</i> * <i>Dec. iii.</i> 1876, p. 13, t. 22, figs. 1—7, t. 23, figs. 7—10; <i>Couchman's Progress Rept.</i> 1877, iv. p. 156. | Broadhurst and Kilmore Creeks, <i>Vict.</i> |
| P. <i>fecundus</i> , <i>Barr.</i>            | U. Sil. | * <i>Syst. Sil. de la Bohême</i> , 1852, i. p. 514, t. 21, figs. 1—27; <i>P. (Portlockia)</i> <i>M'Coy</i> , * <i>Geol. Survey, Vict. Dec. iii.</i> 1876, p. 15, t. 22, figs. 8 and 9, t. 23, figs. 1—6.                                                                                                                                            | Yering, Up. Yarra, <i>Vict.</i>             |
| P. <i>longicaudatus</i> , <i>Murchison</i> . | U. Sil. | * <i>Silurian Syst.</i> 1839, p. 656, t. 14, figs. 11—14; <i>M'Coy</i> , <i>Ex. Essay</i> , 1861, p. 162; <i>Annals Nat. Hist.</i> 1862, ix. p. 140; <i>id. ibid.</i> 1867, xx. p. 193; <i>Bigsby</i> , <i>Thesaurus Sil.</i> 1868, p. 63; <i>M'Coy</i> , <i>Smyth's Progress Rept.</i> 1874, p. 34.                                                | Broadhurst Creek, <i>Vict.</i>              |

## (Crustacea.)

## (Silurian.)

| Genus and Species.                                                                                                     | Strat. Subdivision.     | References.                                                                                                                                                                              | Localities, &c.          |
|------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Genus <b>Proetus</b> , <i>Steining</i> , 1831. (Méms. Soc. Géol. France, i. p. 355 <sup>1</sup> ).— <i>Trilobita</i> . |                         |                                                                                                                                                                                          |                          |
| <i>P. Stokesii</i> , <i>Murchison</i> .                                                                                | U. Sil. (Up. Llandov.). | <i>Asaphus</i> , *Silurian System, 1839, p. 656, t. 14, f. 6; <i>Proetus</i> , Siluria, 1867, 4th ed. p. 520; <i>P. Stokesii</i> ? de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 56. | Yarralumla, N. S. Wales. |

Genus **Staurocephalus**, *Barrande*, 1846. (Notice Prélim. p. 52).—*Trilobita*.

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| <i>S. Clarkei</i> , <i>de Kon.</i> | U. Sil. (Up. Llandov.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 47, t. 1, f. 8. | Rockflat Creek, N. S. Wales. |
|------------------------------------|-------------------------|-----------------------------------------------------------|------------------------------|

Genus **Trinucleus**, *Luid*, 1699. (Lith. Brit. Ichnographia, p. 97<sup>2</sup>).—*Trilobita*.

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|------------------------------------------|--|------------------------------------|--------------------------|
| <i>T. Clarkei</i> , <i>M'Leay</i> (ms.). |  | Quart. Jour. Geol. Soc. iv. p. 64. | Burrageood, N. S. Wales. |
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*Sub-kingdom*—Mollusca. *Section*—Molluscoida. *Class*—Polyzoa<sup>3</sup>.

Genus **Ceripora** (pars), *Goldfuss*, 1826 (Petrefacta, i. p. 32<sup>4</sup>).

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| <i>C. oculata</i> , <i>Clarke</i> . |  | S. Goldfields, 1860, p. 284 (? = <i>C. oculata</i> , Goldfuss, *Petrefacta, i. p. 217, t. 65, f. 14). |  |
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Genus **Ptilodictya**, *Lonsdale*, 1839, non *Goldf.* (Sil. Syst. p. 676.)  
*Cheilostomata-Inarticulata*.

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| <i>P. fucoides</i> , <i>M'Coy</i> . | U. Sil. | *Brit. Pal. Foss. p. 47, t. 1 c, f. 14; Smyth's Progress Rept. 1874, p. 34. | Goulburn, Vict. |
|-------------------------------------|---------|-----------------------------------------------------------------------------|-----------------|

*Class*—Brachiopoda.

Genus **Atrypa**, *Dalman*, 1828 (Kongl. Vet. Acad. Handl. för år 1827, p. 102<sup>5</sup>; Davidson, Introduction, p. 90) = *Spirigerina*, d'Orb.—*Clistenterata-Rhynchonellidae*.

|                                           |                       |                                                                                                                                                                                                                                                                                            |                        |
|-------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <i>A. reticularis</i> , <i>Linnaeus</i> . | U. Sil. (Up. Ludlow). | <i>Anomia</i> , Syst. Nat. 1767, XII. ed. i. pt. 2, p. 1152; <i>Atrypa</i> , Dalman. Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 127, t. 4, f. 2; <i>id.</i> Hall, Pal. N. York, 1851, II. pp. 72 and 270, t. 23, f. 8, a—e; <i>id.</i> Davidson, Mon. Brit. Sil. Brach. 1867, p. 129, | Duntroon, N. S. Wales. |
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<sup>1</sup> This volume bears date 1833, but the memoir containing the description of the genus *Proetus*, is headed, "publié à Trèves en 1831."

<sup>2</sup> As *Trinucleum*. It was figured, but not described, in the *Philosophical Transactions* (Vol. 20, 1698, p. 279, plate).

*Note.* The following genera are also known to occur in Victoria, *Beyrichia*, *Cheirurus*, and *Sphaerexochus* (Selwyn, *Quart. Jour. Geol. Soc.* 1858, XIV. pp. 533—34; Bigsby, *Thesaurus*, pp. 43—45, 65, and 73, &c.; M'Coy, *Smyth's Progress Rept.* 1874, p. 34). From New South Wales we have *Beyrichia* (Clarke, *S. Goldfields*, p. 286).

A species of *Trinucleus*, closely allied to, if not identical with, *T. Caractaci*, Murchison (= *C. concentricus*, Eaton), was discovered by the Rev. W. B. Clarke at Yarralumla, N. S. Wales (*Quart. Jour.* IV. p. 66).

<sup>3</sup> Prof. M'Coy has recorded the occurrence of two new species of *Fenestella* in Victorian rocks.

<sup>4</sup> As originally described *Ceripora* contained a heterogeneous assemblage of generic types, and even as now used for Palaeozoic forms can only be regarded as a provisional or conventional term. It is probable that the majority of the latter will fall into the genus *Rhombopora*, Meek.

<sup>5</sup> The genus *Atrypa*, with *Leptæna* and *Orthis*, were described by Dalman, as above, in the volume for 1827, which bears 1828 as its date of publication.

## (Brachiopoda.)

## (Silurian.)

| Genus and Species.                      | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.        |
|-----------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| A. ? hemispherica, <i>J. de C. Sow.</i> | U. Sil. (Up. Llandov.). | t. 14, figs. 1—22; <i>Spirigera</i> , M'Coy, <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Atrypa</i> , Clarke, S. Goldfields, 1860, p. 284; <i>id.</i> Bigsby, <i>Thesaurus Sil.</i> 1868, p. 91; <i>Spirigera</i> , M'Coy, Smyth's Progress Report, 1874, p. 34; <i>Atrypa</i> , Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 12; <i>id.</i> de Koninek, <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 33.<br>*Silurian Syst. 1839, p. 637, t. 20, f. 7; Davidson, *Mon. Brit. Sil. Brachiopoda, p. 136, t. 13, figs. 23—30; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 33. | Duntroon, N. S. Wales. |

Genus **Chonetes**, Fischer, 1837. (*Oryctographie Gouv. Moscou*, p. 134.)  
*Clistenterata-Productida.*

|                                 |                   |                                                                                                                                                                                                                                                                                                                    |                                                         |
|---------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| C. minima, <i>J. de C. Sow.</i> |                   | <i>Leptæna</i> , *Silurian Syst. 1839, p. 629, t. 13, f. 4; <i>Chonetes</i> , Davidson, *Mon. Brit. Sil. Brachiopoda, p. 334, t. 49, figs. 15—19; M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note; <i>id.</i> <i>ibid.</i> $\frac{1}{4}$ sheet 4, S.W.; <i>id.</i> Smyth's Progress Rept. 1874, p. 34. | Bruce's Creek, nr. Mount Macedon? and Kilmore Ck. Vict. |
| C. striatella, <i>Dalman.</i>   | U. Sil. (Ludlow). | <i>Orthis</i> , *Kongl. Vet. Acad. Handl. 1827, p. 111, t. 1, f. 5, a—d; <i>Chonetes</i> , Davidson, *Mon. Brit. Sil. Brachiopoda, p. 331, t. 49, figs. 23—26; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 26.                                                                                               | Quadong, N. S. Wales.                                   |

Genus **Leptæna**, Dalman, 1828. (Kongl. Vet. Acad. Handl. för år 1827, p. 94.)  
*Clistenterata-Strophomenida.*

|                                  |                         |                                                                                                                                                                                         |                                           |
|----------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| L. minima, <i>Sow.</i>           |                         | Vide <i>Chonetes minima</i> , Sow.                                                                                                                                                      |                                           |
| L. sericea, <i>J. de C. Sow.</i> | U. Sil.                 | *Silurian Syst. 1839, p. 636, t. 19, figs. 1 and 2; Clarke, Quart. Jour. Geol. Soc. iv. p. 65; Davidson, *Mon. Brit. Sil. Brachiopoda, p. 323, t. 48, figs. 10—19.                      | Yarralumla, Murray District, N. S. Wales. |
| L. quinquecostata, <i>M'Coy.</i> | U. Sil. (Up. Llandov.). | <i>Orthis</i> , *Sil. Foss. Ireland, 1862, p. 33, t. 3, f. 8; Davidson, *Mon. Brit. Sil. Brachiopoda, p. 322, t. 48, figs. 23—27; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 26. | Yarralumla, N. S. Wales.                  |

Genus **Leptagonia**, M'Coy, 1852. (Brit. Pal. Foss. p. 247<sup>1</sup>.) Vide *Strophomena*.

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| L. depressa, <i>Dalman.</i> |  | Vide <i>Strophomena rhomboidalis</i> , Wilckens. |  |
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<sup>1</sup> The name seems to have first appeared in the *Annals Nat. Hist.* 1851, VIII. p. 404.

## (Brachiopoda.)

## (Silurian.)

| Genus and Species.                                                                                                                                        | Strat. Subdivision.           | References.                                                                                                                                                                                                                                                                                | Localities, &c.                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Genus <b>Meristella</b> , Hall, 1860 <sup>1</sup> . (Thirteenth Annual Report N. Y. State Cabinet, Nat. Hist. p. 74.)— <i>Clistenterata-Spiriferidæ</i> . |                               |                                                                                                                                                                                                                                                                                            |                                                            |
| <i>M. tumida</i> , Dalman.                                                                                                                                | U. Sil. (Up. Llandov.).       | <i>Atrypa</i> , *Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 134, t. 5, f. 3; <i>Meristella</i> , Davidson, *Mon. Brit. Sil. Brach. 1867, p. 109, t. 11, figs. 1—13; <i>M. tumida?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 36.                                           | Quadong, N. S. Wales.                                      |
| Genus <b>Nucleospira</b> , Hall, 1859. (Pal. New York, iii. p. 218 <sup>2</sup> .)<br><i>Clistenterata-Spiriferidæ</i> .                                  |                               |                                                                                                                                                                                                                                                                                            |                                                            |
| <i>N. Australis</i> , M'Coy (ms.).                                                                                                                        | U. Sil. (May Hill Sandstone). | Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note.                                                                                                                                                                                                                                      | Bruce's Creek, nr. Mount Macedon, Vict.                    |
| Genus <b>Orthis</b> , Dalman, 1828. (Kongl. Vet. Acad. Handl. för år 1827, p. 96.)<br><i>Clistenterata-Strophomenidæ</i> .                                |                               |                                                                                                                                                                                                                                                                                            |                                                            |
| <i>O. elegantula</i> , Dalman.                                                                                                                            |                               | M'Coy, Annals Nat. Hist. 1867, xx. p. 201; Davidson, *Mon. Brit. Sil. Brach. p. 211, t. 27, figs. 1—9; M'Coy, Smyth's Progress Rept. 1874, p. 34.                                                                                                                                          |                                                            |
| <i>O. canaliculata</i> , Lindström.                                                                                                                       |                               | Davidson, *Mon. Brit. Sil. Brach. p. 218, t. 27, figs. 12 and 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 32.                                                                                                                                                                    | Bell River, N. S. Wales.                                   |
| Genus <b>Pentamerus</b> , J. Sowerby, 1813 (Min. Con. i. p. 73*)= <i>Gypidia</i> , Dalman.<br><i>Clistenterata-Pentameridæ</i> .                          |                               |                                                                                                                                                                                                                                                                                            |                                                            |
| <i>P. Australis</i> , M'Coy (ms.).                                                                                                                        |                               | Annals Nat. Hist. 1867, xx. p. 199; Bigsby, Thesaurus Sil., 1868, p. 110; M'Coy, Smyth's Progress Rept. 1874, p. 34.                                                                                                                                                                       |                                                            |
| <i>P. Knightii</i> , J. Sow.                                                                                                                              | U. Sil. (Ludlow).             | *Min. Con. 1813, i. p. 73, t. 28; Davidson, *Mon. Brit. Sil. Brachiopoda, p. 142, t. 16, figs. 1—3, t. 17, figs. 1—10, t. 19, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 30.                                                                                                  | Mount Canoboles, N. S. Wales.                              |
| <i>P. oblongus</i> , J. de C. Sow.                                                                                                                        | U. Sil. (Up. Llandov.).       | *Silurian Syst. 1839, p. 641, t. 19, f. 10, Davidson, *Mon. Brit. Sil. Brach. p. 151, t. 18, figs. 1—12, t. 19, figs. 1 and 2; Wood's Geol. Obs. S. Austr. 1862, p. 20; Clarke, Remarks Sed. Form. N. S. Wales, 3rd ed. 1875, p. 10; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 31. | Duntroon, N. S. Wales; 30 m. S. of Adelaide, S. Australia. |

<sup>1</sup> In truth proposed in 1859 (12th Report, State Cabinet, p. 78), but only described in 1860, as above.<sup>2</sup> See also 12th Ann. Report N. Y. State Cab. Nat. Hist. 1859, p. 24.

## (Brachiopoda.)

## (Silurian.)

| Genus and Species.                                                                                                                                                                                              | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Genus <b>Porambonites</b> , Pander, 1830. (Beiträge Geog. Russ. Reiches, p. 95; Davidson, Introduction, p. 99.)— <i>Clistenterata-Rhynchonellidæ</i> .                                                          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
| <i>P. deformatus</i> , Eichwald.                                                                                                                                                                                | U. Sil.                 | <i>Terebratula</i> , *Zool. Spec. 1829, i. p. 275, t. 4, f. 8; <i>Porambonites</i> , * <i>Lethæa Rossica</i> , 1860, i. p. 796; <i>id.</i> M'Coy, in Couchman's Progress Report, 1877, iv. p. 155.                                                                                                                                                                                                                                                                                                                  | Chiltern, Vict.                         |
| Genus <b>Retzia</b> , King, 1850 (Permian Foss. p. 137)= <i>Spirigera</i> , D'Orbigny, 1849. <i>Clistenterata-Spiriferidæ</i> .                                                                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
| <i>R. mima</i> , Salter (ms.).                                                                                                                                                                                  | L. Sil.                 | Bigsby, Thesaurus Sil. 1868, p. 112.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tasmania West.                          |
| <i>R. Salteri</i> , Davidson.                                                                                                                                                                                   | U. Sil. (Up. Llandov.). | <i>Terebratula</i> , *Bull. Soc. Géol. de France, 2nd ser. v. 1848, p. 331, t. 3, f. 31; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 34.                                                                                                                                                                                                                                                                                                                                                                      | Yarralumla, N. S. Wales.                |
| Genus <b>Rhynchonella</b> , Fischer, 1809 (Notice Foss. Gouv. Moscou, p. 35; Davidson, Introduction, p. 98)= <i>Hypothyris</i> , Phillips; <i>Hemithyris</i> , D'Orbigny. <i>Clistenterata-Rhynchonellidæ</i> . |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
| <i>R. borealis</i> , Schlotheim.                                                                                                                                                                                | U. Sil.                 | <i>Terebratula</i> , System. Verzeich. Pet. Samm. 1832, No. 88, p. 65; <i>R. diodontæ</i> , Dalman, *Kongl. Vet. Acad. Handl. 1828, p. 142, t. 6, f. 4; <i>R. borealis</i> , Davidson, *Mon. Brit. Sil. Brach. p. 174, t. 22, figs. 9—12; <i>R. diodontæ</i> , M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note; <i>id. ibid.</i> Annals Nat. Hist. 1867, xx. p. 199; <i>Rhynchonella</i> , Bigsby, Thesaurus Sil. 1868, p. 114; <i>Hemithyris diodontæ</i> , M'Coy, Smyth's Progress Rept. 1874, p. 34. | Bruce's Creek, nr. Mount Macedon, Vict. |
| <i>R. subsphæroidalis</i> , M'Coy (ms.).                                                                                                                                                                        |                         | Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Near the Bald Hill, Kilmore, Vict.      |
| <i>Rhynch. Wilsoni</i> , J. Sowerby.                                                                                                                                                                            | U. Sil.                 | <i>Terebratula</i> , *Min. Con. 1816, ii. p. 38, t. 118, f. 3; <i>Rhynchonella</i> , Davidson, Annals Nat. Hist. 1852, ix. pp. 250—53, t. 13; <i>id. ibid.</i> *Mon. Sil. Brach. 1867, pt. vii. No. 2, p. 167, t. 23, figs. 1—9; <i>id.</i> M'Coy, in Couchman's Progress Report, 1877, iv. p. 155.                                                                                                                                                                                                                 | Chiltern, Vict.                         |
| Genus <b>Siphonotreta</b> , De Verneuil, 1845. (Murchison's Geol. Russia, ii. p. 286.) <i>Tretenterata-Discinidæ</i> .                                                                                          |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
| <i>S. micula</i> , M'Coy.                                                                                                                                                                                       | L. Sil.                 | *Brit. Pal. Foss. Fascic. 2, 1852, p. 188, t. 1 n, f. 3; Ex. Essay, 1861, p. 162; Annals Nat. Hist. 1862, ix. p. 139; <i>ibid.</i> 1867, xx. p. 201; Bigsby, Thesaurus Sil. 1868, p. 117; M'Coy, Smyth's Progress Rept. 1874, p. 33.                                                                                                                                                                                                                                                                                | Deep Creek, Vict.                       |

## (Brachiopoda.)

## (Silurian.)

| Genus and Species.                                                                                                                                                                                                                               | Strat. Subdivision.     | References.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Genus <b>Spirifera</b> , <i>J. Sowerby</i> , 1816 <sup>1</sup> (Min. Con. II, p. 41) = <i>Delthyris</i> , Dalman; <i>Brachythyris</i> , M'Coy; <i>Choristites</i> , Fischer; <i>Trigonotreta</i> , König.<br><i>Clistenterata-Spiriferidae</i> . |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |
| <i>S. crispa</i> , <i>Hisinger</i> .                                                                                                                                                                                                             | U. Sil. (Up. Llandov.). | <i>Terebratula</i> , *Kongl. Vet. Acad. Handl. för år 1826, t. 7, f. 4: <i>Spirifera</i> , Davidson, *Mon. Brit. Sil. Brach. p. 97, t. 10, figs. 13—15; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 35.                                                                                                                                                                                                                                 | Rock-flat Creek, N. S. Wales. |
| <i>S. cyrtæna</i> , <i>Dalman</i> .                                                                                                                                                                                                              |                         | Vide <i>S. plicatella</i> , Linn.                                                                                                                                                                                                                                                                                                                                                                                                             |                               |
| <i>S. plicatella</i> , <i>Linn.</i>                                                                                                                                                                                                              | U. Sil.?                | <i>Anomia</i> , Systema, 1758, 10th ed. p. 700; 1767, 12th ed. i. pt. 2, p. 1152; <i>Delthyris cyrtæna</i> , Dalman, *Kongl. Vet. Acad. Handl. 1828, p. 121, t. 3, f. 4; <i>Spirifera cyrtæna</i> , M'Coy, Geol. Survey, Vict. ‡ sheet 4, S.W. note; <i>S. plicatella</i> , Davidson, *Mon. Brit. Sil. Brach. p. 84, t. 9, f. 12.                                                                                                             | Kilmore Creek, Vict.          |
| Genus <b>Strophomena</b> ( <i>Rafinesque</i> , 1820?), <i>Blainville</i> , 1824. (Dict. Sc. Nat. xxxii. p. 302.)<br><i>Clistenterata-Strophomenidae</i> .                                                                                        |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |
| <i>S. compressa</i> , <i>J. de C. Sow.</i>                                                                                                                                                                                                       | U. Sil. (Up. Llandov.). | <i>Orthis</i> , *Silurian Syst. 1839, p. 638, t. 22, f. 12; <i>Strophomena</i> , Davidson, *Brit. Sil. Brach. p. 315, t. 46, figs. 7—10; <i>Leptæna</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, p. 27.                                                                                                                                                                                                                                     | Duntroon, N. S. Wales.        |
| <i>S. depressa</i> , <i>M'Coy</i> .                                                                                                                                                                                                              |                         | Vide <i>S. rhomboidalis</i> , Wilckens.                                                                                                                                                                                                                                                                                                                                                                                                       |                               |
| <i>S. filosa</i> , <i>J. de C. Sow.</i>                                                                                                                                                                                                          | U. Sil. (Up. Llandov.). | <i>Orthis</i> , *Silurian Syst. 1839, p. 630, t. 13, f. 12; <i>Strophomena</i> , Davidson, *Mon. Brit. Sil. Brach. p. 307, t. 44, figs. 14—20; <i>S. filosa</i> ? de Kon. *Foss. Pal. Nouv.-Galles du Sud, p. 29.                                                                                                                                                                                                                             | Yass, N. S. Wales.            |
| <i>S. pecten</i> , <i>Linn.</i>                                                                                                                                                                                                                  | U. Sil. (Up. Llandov.). | <i>Anomia</i> , Systema, 1767, 12th ed. i. pt. 2, p. 1152; <i>Strophomena</i> , Davidson, *Mon. Brit. Sil. Brach. p. 304, t. 43, figs. 1—11; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 28.                                                                                                                                                                                                                                            | Yarralumla, N. S. Wales.      |
| <i>S. rhomboidalis</i> , <i>Wilckens</i> .                                                                                                                                                                                                       | U. Sil.                 | <i>Conchita</i> , Nach. v. Seltene Verst. 1769, p. 79, t. 8, figs. 43 A, 44 A; Davidson, *Mon. Brit. Sil. Brach. p. 281, t. 39, figs. 1—21; <i>Leptæna</i> ( <i>Leptagonia</i> ) <i>depressa</i> , M'Coy, *Brit. Pal. Foss. Fascic. 2, 1852, p. 248; <i>Leptagonia depressa</i> , <i>ibid.</i> Annals Nat. Hist. 1867, xx. p. 201; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 34; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 28. | Rock-flat Creek, N. S. Wales. |

<sup>1</sup> Agassiz says 1816 (*Nomenclator Zoologicus*, p. 84); Bronn says 1818 (*Index Pal.* p. 1172); Davidson says 1815 (*Introduct. Brachiopoda*, p. 79).

## (Brachiopoda—Pelecypoda.)

(Silurian.)

| Genus and Species.                                                                                                                                                                             | Strat. Subdivision.           | References.                                                                                                            | Localities, &c.                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Genus <b>Trematospira</b> , Hall, 1859. (12th Ann. Report, State Cabinet New York, p. 27; Pal. New York, iii. p. 207; <i>ibid.</i> 1867, Vol. iv. p. 271.)— <i>Clistenterata-Spiriferidæ</i> . |                               |                                                                                                                        |                                         |
| <b>T. formosa</b> , Hall.                                                                                                                                                                      | U. Sil. (May Hill Sandstone). | <i>l. c.</i> p. 215, t. 36, figs. 2 <i>a</i> — <i>t</i> ; M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note. | Bruce's Creek, nr. Mount Macedon, Vict. |
| <b>T. hispleura</b> , M'Coy (? ms.).                                                                                                                                                           | " "                           | Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note.                                                                  | " "                                     |

## Section—Mollusca proper.

## Class—Pelecypoda (= Lamellibranchiata or Conchifera).

Genus **Ctenodonta**, Salter, 1852. (Brit. Ass. Rept. for 1851, pt. 2, p. 64.)  
Vide *Tellinomya*, Hall.

|                                    |   |                                |
|------------------------------------|---|--------------------------------|
| <b>C. amygdala</b> , Salter (ms.). | } | Vide <i>Tellinomya</i> , Hall. |
| <b>C. antipoda</b> , Salter (ms.). |   |                                |

Genus **Cyrtodonta**, Billings, 1858 (Geol. Survey, Canada, Report for 1857, p. 179)  
= *Cypricardites* (pars), Conrad, 1841; *Palæarca*, Hall, 1859; *Megalomus*, Hall, 1853.  
*Arcacea-Arcidæ*.

|                                      |   |         |                                                            |                |
|--------------------------------------|---|---------|------------------------------------------------------------|----------------|
| <b>C. auriculata</b> , Salter (ms.). | } | L. Sil. | <i>Palæarca</i> , in Bigsby's Thesaurus Sil. 1868, p. 140. | Tasmania West. |
| <b>C. compressa</b> , "              |   |         |                                                            |                |
| <b>C. distorta</b> , "               |   |         |                                                            |                |
| <b>C. gibbosula</b> , "              |   |         |                                                            |                |
| <b>C. inflata</b> , "                |   |         |                                                            |                |
| <b>C. obliquata</b> , "              |   |         |                                                            |                |
| <b>C. pinguis</b> , "                | } | L. Sil. | <i>Palæarca</i> , in Bigsby's Thesaurus Sil. 1868, p. 140. | Tasmania West. |
| <b>C. reversa</b> , "                |   |         |                                                            |                |

Genus **Orthonota**, Conrad, 1841. (5th Annual Rept. Pal. N. York, p. 50.)  
*Lucinacea-Solemyidæ*.

|                                      |         |                                                                                                                                                                                                                                                                                   |                                      |
|--------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>O. amygdalina</b> , J. de C. Sow. | U. Sil. | <i>Cypricardia?</i> Murchison's *Sil. Syst. 1839, p. 609, t. 5, f. 2; <i>Leptodomus</i> , M'Coy, *Brit. Pal. Foss. p. 278; <i>Sanguinolites</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 223; <i>Leptodomus</i> , M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note. | Kilmore and Broadhurst Creeks, Vict. |
| <b>O. subrigida</b> , M'Coy (ms.).   | U. Sil. | Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note.                                                                                                                                                                                                                             | " "                                  |

Genus **Palæarca**, Hall, 1859. (12th Ann. Report, State Cab. Nat. Hist. N. York, p. 9; Pal. N. York, 1859, iii. pp. 271 and 523.) Vide *Cyrtodonta*, Billings.

|                                                                                                                  |   |                                    |
|------------------------------------------------------------------------------------------------------------------|---|------------------------------------|
| <b>Palæarca auriculata</b> , Salter (ms.).                                                                       | } | Vide <i>Cyrtodonta</i> , Billings. |
| <b>P. compressa</b> , P. distorta, P. gibbosula, P. inflata, P. obliquata, P. pinguis, P. reversa, Salter (ms.). |   |                                    |
|                                                                                                                  |   |                                    |
|                                                                                                                  |   |                                    |
|                                                                                                                  |   |                                    |

## (Pelecypoda—Gasteropoda.)

(Silurian.)

| Genus and Species.                                                                                                                                                                                | Strat. Subdivision.        | References.                                                                                                                                                                                                                             | Localities, &c.             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Genus <b>Pterinea</b> , Goldfuss, 1832. (Naturg. Atlases, Th. iv. p. 73; Petrefacta Germ. ii. p. 133.)— <i>Mytilacea-Aviculidæ</i> .                                                              |                            |                                                                                                                                                                                                                                         |                             |
| <i>P. amplicata</i> , Phil-<br>lips.                                                                                                                                                              | U. Sil. (Up.<br>Llandov.). | <i>Avicula</i> , *Mems. Geol. Survey,<br>1858, i. pt. 1, p. 367, t. 23, f. 1;<br><i>id.</i> Morris, Cat. Brit. Foss. 2nd<br>ed. 1854, p. 161; <i>Pterinea</i> , de<br>Koninek, *Foss. Pal. Nouv.-<br>Galles du Sud, 1876, pt. 1, p. 37. | Dangalong, N. S.<br>Wales.  |
| <i>P. pumila</i> , de Ko-<br>ninck.                                                                                                                                                               | „ „                        | *Foss. Pal. Nouv.-Galles du Sud,<br>1876, pt. 1, p. 38; Atlas, t. 1, f. 7.                                                                                                                                                              | Yarralumla, N. S.<br>Wales. |
| Genus <b>Tellinomya</b> , Hall, 1847 (Pal. N. York, i. p. 151) = <i>Ctenodonta</i> , Salter, 1852;<br>non <i>Tellinomya</i> , L. Agassiz (= <i>Tellinmya</i> , Brown).— <i>Arcacea-Nuculidæ</i> ? |                            |                                                                                                                                                                                                                                         |                             |
| <i>T. amygdala</i> , Salter<br>(ms.).                                                                                                                                                             | L. Sil.                    | <i>Ctenodonta</i> , in Bigsby's Thesaurus<br>Sil. 1868, p. 133.                                                                                                                                                                         | Tasmania West.              |
| <i>T. antipoda</i> , „ „                                                                                                                                                                          | „                          | „ „ „                                                                                                                                                                                                                                   | „ „                         |

## Class—Gasteropoda.

Genus **Bellerophon**<sup>1</sup>, de Montfort, 1808. (Conch. Systématique, i. p. 51.)  
*Nucleobr.-Atlantidæ*.

|                                      |                            |                                                                     |                                  |
|--------------------------------------|----------------------------|---------------------------------------------------------------------|----------------------------------|
| <i>B. pugnus</i> , Salter<br>(ms.).  | L. Sil.                    | Bigsby, Thesaurus Sil. 1868,<br>p. 144.                             | Tasmania West.                   |
| <i>B. Jukesii</i> , de Ko-<br>ninck. | U. Sil. (Up.<br>Llandov.). | *Foss. Pal. Nouv.-Galles du Sud,<br>1876, p. 42; Atlas, t. 4, f. 2. | Rock-flat Creek, N.<br>S. Wales. |

Genus **Euomphalus**<sup>2</sup>, J. Sowerby, 1814. (Min. Con. i. p. 97.)—*Prosobr.-Turbinidæ*.

|                                           |                            |                                                                                                                                      |                                  |
|-------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <i>E. ?alatus</i> , Clarke.               |                            | S. Goldfields, 1860, p. 288 (? = <i>E.</i><br><i>?alatus</i> , Hisinger, Leth. Suec.<br>t. 11, f. 2).                                |                                  |
| <i>E. pleurophorus</i> , de<br>Kon.       | U. Sil. (Lud-<br>low).     | *Foss. Pal. Nouv.-Galles du Sud,<br>1876, p. 40; Atlas, t. 1, f. 6.                                                                  | Yass, N. S. Wales.               |
| <i>E. sculptus</i> , J. de C.<br>Sowerby. |                            | *Silurian System, 1839, p. 626,<br>t. 12, f. 17; <i>Sp. allied to</i> , M'Coy,<br>Geol. Survey, Vict. $\frac{1}{4}$ sheet 4,<br>S.W. |                                  |
| <i>E. solarioides</i> , de<br>Kon.        | U. Sil. (Up.<br>Llandov.). | *Foss. Pal. Nouv.-Galles du Sud,<br>1876, p. 39; Atlas, t. 1, f. 5.                                                                  | Rock-flat Creek, N.<br>S. Wales. |

Genus **Eunema**, Salter, 1859. (Geol. Survey, Canada, Dec. i. pp. 24 and 29.)  
*Prosobr.-Litorinidæ*.

|                                    |         |                                         |                |
|------------------------------------|---------|-----------------------------------------|----------------|
| <i>E. æmula</i> , Salter<br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p.<br>152. | Tasmania West. |
|------------------------------------|---------|-----------------------------------------|----------------|

<sup>1</sup> Notice was first drawn to shells constituting this genus by Baron de Hupsch, but the generic name was bestowed by de Montfort.<sup>2</sup> *Euomphalus* versus *Straparollus*. Some authors consider these genera as synonymous, but Meek and Worthen propose to separate them, sub-generically at least, as typified by *E. pentangulatus* and *S. Dionysii* respectively. (See their remarks, *Illinois Survey Report*, ii. p. 158.)



## (Gasteropoda.)

## (Silurian.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

Genus **Helicotoma**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 10 and 13.)  
*Prosobr.-Ianthinidæ.*

|                                               |         |                                      |                |
|-----------------------------------------------|---------|--------------------------------------|----------------|
| <i>H. Milligani</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 154. | Tasmania West. |
| <i>H. pusilla</i> , <i>Salter</i><br>(ms.).   | L. Sil. | " " " "                              | " "            |

Genus **Holopæa**, *Hall*, 1847. (Pal. N. York, i. p. 169.)—*Prosobr.-?Haliotidæ*  
or *Litorinidæ.*

|                                           |         |                                      |                |
|-------------------------------------------|---------|--------------------------------------|----------------|
| <i>H. Mumia</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 155. | Tasmania West. |
|-------------------------------------------|---------|--------------------------------------|----------------|

Subgenus **Hormotoma**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 18 and 22.)  
*Prosobr.-Pleurotomariidæ.*

|                                             |         |                                      |                |
|---------------------------------------------|---------|--------------------------------------|----------------|
| <i>H. nerinæa</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 156. | Tasmania West. |
| <i>H. usitata</i> , " "                     | "       | " " " "                              | " "            |

Genus **Murchisonia**, *D'Archiac* and *De Verneuil*, 1841. (Bull. Soc. Géol. France,  
xii. p. 154.)—*Prosobr.-Pleurotomariidæ.*

|                                               |         |                                      |                |
|-----------------------------------------------|---------|--------------------------------------|----------------|
| <i>M. Franklini</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 158. | Tasmania West. |
| <i>M. mimetica</i> , " "                      | "       | " " " "                              | " "            |

Genus **Omphalotrochus**, *Meek*, 1864. (Geol. Survey Report, California, i. Pal.  
p. 16.)—*Prosobr.-Turbinidæ.*

|                                         |                   |                                                                  |                    |
|-----------------------------------------|-------------------|------------------------------------------------------------------|--------------------|
| <i>O. Clarkei</i> , <i>de Koninck</i> . | U. Sil. (Ludlow). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 41; Atlas, t. 1, f. 7. | Yass, N. S. Wales. |
|-----------------------------------------|-------------------|------------------------------------------------------------------|--------------------|

Genus **Raphistoma**, *Hall*<sup>1</sup>, 1847. (Pal. N. York, i. p. 28.)—*Prosobr.-Ianthinidæ.*

|                                            |         |                                      |                |
|--------------------------------------------|---------|--------------------------------------|----------------|
| <i>R. æterna</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 165. | Tasmania West. |
|--------------------------------------------|---------|--------------------------------------|----------------|

Genus **Scalites** (*Conrad* ms.), *Emmons*, 1842. (Geol. N. York, pt. 2, p. 312<sup>2</sup>.)  
*Prosobr.-Ianthinidæ.*

|                                               |         |                                      |                |
|-----------------------------------------------|---------|--------------------------------------|----------------|
| <i>S. Australis</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 165. | Tasmania West. |
|-----------------------------------------------|---------|--------------------------------------|----------------|

Genus **Trochonema**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 24 and 27.)  
*Prosobr.-Litorinidæ.*

|                                               |         |                                      |                |
|-----------------------------------------------|---------|--------------------------------------|----------------|
| <i>T. Bigsbyana</i> , <i>Salter</i><br>(ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 166. | Tasmania West. |
|-----------------------------------------------|---------|--------------------------------------|----------------|

<sup>1</sup> According to *Salter* *Raphistoma*, *Hall*, *Helicotoma*, *Salt*, and *Ophileta*, *Vanuxem*, are sub-genera of *Conrad's* genus *Scalites*.

<sup>2</sup> Figured (*S. angulatus*, *Conr. ms.*) but not described.

## (Pteropoda—Cephalopoda.)

(Silurian.)

| Genus and Species.                                                                                           | Strat. Subdivision.     | References.                                                                                                                                                                                                  | Localities, &c.              |
|--------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <i>Class—Pteropoda. Section—Thecosomata.</i>                                                                 |                         |                                                                                                                                                                                                              |                              |
| Genus <b>Conularia</b> (Miller), J. Sowerby, 1820 <sup>1</sup> . (Min. Con. iii. p. 107.)— <i>Hyaleidæ</i> . |                         |                                                                                                                                                                                                              |                              |
| C. Sowerbii, De-france.                                                                                      | U. Sil. (Up. Llandov.). | Blainville, *Man. de Malacol. 1825, i. p. 378, Atlas, pl. 14, f. 2; de Verneuil and Keyserling, *Geol. Russia, Vol. II. Pal. p. 348, t. 24, f. 5; de Koninek, *Foss. Pal. Nouv.-Gallies du Sud, 1876, p. 43. | Rockflat Creek, N. S. Wales. |

Genus **Tentaculites**, Schlothheim, 1820. (Petrefactenkunde, p. 377.)—*Hyaleidæ*.

|                       |  |                                                                                                   |  |
|-----------------------|--|---------------------------------------------------------------------------------------------------|--|
| T. annulatus, Clarke. |  | S. Goldfields, 1860, p. 286; (? <i>T. annulatus</i> , Schl. l. c. p. 377, t. 29, f. 8.)           |  |
| T. ornatus, Clarke.   |  | S. Goldfields, 1860, p. 286; (? <i>T. ornatus</i> , Sow. *Sil. Syst. 1839, p. 628, t. 12, f. 35.) |  |
| T. tenuis, Clarke.    |  | l. c. p. 286; (? <i>T. tenuis</i> , Sow. *Sil. Syst. 1839, p. 613, t. 5, f. 33.)                  |  |

*Class—Cephalopoda.*Genus **Lituities**, Breynius, 1732 (Dissert. de Polythal. pp. 12 and 25.)  
*Tetrabranth-Nautilidæ*.

|                           |         |                                      |                |
|---------------------------|---------|--------------------------------------|----------------|
| L. Gouldii, Salter (ms.). | L. Sil. | Bigsby, Thesaurus Sil. 1868, p. 174. | Tasmania West. |
|---------------------------|---------|--------------------------------------|----------------|

Genus **Orthoceras**, Breynius, 1732 (Dissert. de Polythal. pp. 12 and 28)  
= *Loxoceras*, M'Coy.—*Tetrabranth-Orthoceratidæ*.

|                                |                         |                                                                                                                                                                                                                                              |                              |
|--------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| O. antilope, Salter (ms.).     | L. Sil.                 | Bigsby, Thesaurus Sil. 1868, p. 176.                                                                                                                                                                                                         | Tasmania West.               |
| O. bullatum, J. de C. Sowerby. | U. Sil. (Ludlow).       | *Silurian Syst. 1839, p. 705, t. 5, f. 29; M'Coy, Ex. Essay, 1861, p. 162; <i>id.</i> Annals Nat. Hist. 1862, ix. p. 140; <i>id. ibid.</i> 1867, xx. p. 198; Bigsby, Thesaurus Sil. 1868, p. 176; M'Coy, Smyth's Progress Rept. 1874, p. 34. | Melbourne, Vict.             |
| O. Murchisoni, Salter (ms.).   | L. Sil.                 | Bigsby, Thesaurus Sil. 1868, p. 179.                                                                                                                                                                                                         | Tasmania West.               |
| O. Theca, Salter (ms.).        | "                       | " " " p. 182.                                                                                                                                                                                                                                | " "                          |
| O. Youngii, Salter (ms.).      | "                       | " " " "                                                                                                                                                                                                                                      | " "                          |
| O. ibex, J. de C. Sowerby.     | U. Sil. (Up. Llandov.). | *Silurian Syst. 1839, p. 613, t. 5, f. 30; Salter, Murchison's Siluria, 1867, 4th ed. t. 29, figs. 3 and 4; de Kon. *Foss. Pal. Nouv.-Gallies du Sud, 1876, p. 44.                                                                           | Rockflat Creek, N. S. Wales. |

<sup>1</sup> Bronn and Morris agree in assigning the date 1818 to this genus; Agassiz, on the other hand, says 1820; the latter is correct.

MIDDLE AND UPPER PALÆOZOIC.

(DEVONIAN AND CARBONIFEROUS.)



(Plantæ.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                            | Strat. Subdivision.                | References.                                                          | Localities, &c.      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------|----------------------|
| <i>Kingdom—Plantæ. (Cryptogamia et Phanerogamia.)</i>                                                                                                                                         |                                    |                                                                      |                      |
| Genus <b>Adiantites</b> , <i>Goppert</i> , 1836. (Syst. Sil. Foss. pp. 173 and 216; <i>Adiantides</i> , Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 424.)— <i>Filices-Neuropteridæ</i> . |                                    |                                                                      |                      |
| <i>A. eximius</i> , <i>Bunbury</i> (ms.).                                                                                                                                                     | U.Pal. (Carb. = L. Coal measures). | Clarke, <i>Remarks Sed. Form. N. S. Wales</i> , 3rd ed. 1875, p. 31. | <i>N. S. Wales</i> . |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Genus <b>Alethopteris</b> , <i>Sternberg</i> , 1825. (Flora du Monde Prim. 1826, fas. 4, p. xxi.; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 554.)— <i>Filices-Pecopteridæ</i> . |                                    |                                                                                                                                                                                                                                                                                                                                       |                      |
| <i>A. lonchitica</i> , <i>Brongniart</i> .                                                                                                                                             | U.Pal. (Carb. = L. Coal measures). | <i>Pecopteris</i> , *Hist. Végétaux Foss. 1828, i. p. 275, t. 84, figs. 1—7; <i>A. lonchitidis</i> , <i>Sternberg</i> , *Flora d. Vorwelt, 1825, fas. 4, p. xxi.; <i>A. lonchitica</i> , <i>Schimper</i> , * <i>Traité Pal. Vég.</i> 1869, i. p. 554; <i>id.</i> <i>Clarke, Remarks Sed. Form. N. S. Wales</i> , 1875, 3rd ed. p. 31. | <i>N. S. Wales</i> . |

|                                                                                                                                                                                                                                  |                                        |                                                                                               |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------|
| Genus <b>Aneimites</b> , <i>Dawson</i> , 1861. (Quart. Jour. Geol. Soc. xvii. p. 5; Foss. Plants Dev. and Sil. For. Canada, 1871, p. 48; Schimper, <i>Traité de Pal. Vég.</i> 1874, iii. p. 489.)— <i>Filices-Neuropteridæ</i> . |                                        |                                                                                               |                            |
| <i>A. Iguanensis</i> , <i>M'Coy</i> .                                                                                                                                                                                            | Mid. Pal. (U. Dev.=Iguana Creek beds). | <i>Smyth's Progress Report</i> , 1875, p. 73; <i>Couchman's ibid.</i> 1877, iv. pp. 155, 156. | <i>Iguana Creek, Vict.</i> |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Genus <b>Archæopteris</b> , <i>Dawson</i> , 1863. (Canadian Nat. viii.(1); Foss. Plants Dev. and Up. Sil. For. Canada, 1871, p. 48.)— <i>Filices-Neuropteridæ</i> . |                                        |                                                                                                                                                                                            |                            |
| <i>A. Howitti</i> , <i>M'Coy</i> .                                                                                                                                  | Mid. Pal. (U. Dev.=Iguana Creek beds). | <i>Smyth's Progress Report</i> , 1875, ii. p. 73; <i>ibid.</i> 1876, iii. p. 62; <i>Couchman's ibid.</i> 1877, pp. 155, 156; * <i>Geol. Survey, Vict.</i> Dec. iv. p. 21, t. 36, f. 1—2 a. | <i>Iguana Creek, Vict.</i> |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Genus <b>Bornia</b> , <i>F. A. Roemer</i> , 1850. (Palæontographica, iii. p. 45; Schimper, <i>Traité de Pal. Vég.</i> i. p. 334.)— <i>Equisetaceæ</i> . |                                                         |                                                                                                                                                                                                                                                            |                      |
| <i>B. radiata</i> , <i>Brongniart</i> .                                                                                                                 | U.Pal. (Carb. = Lr. Marine beds, and L. Coal measures). | <i>Calamites</i> , *Hist. Vég. Foss. 1828, i. p. 122, t. 26, f. 1 and 2; <i>Bornia</i> , <i>Schimper</i> , * <i>Traité Pal. Vég.</i> 1869, i. p. 335, t. 24, f. 1—10; de <i>Koninck</i> , Foss. Pal. Nouv.-Galles d. Sud, 1877, pt. 3, p. 142, t. 7, f. 1. | <i>N. S. Wales</i> . |

(Plantæ.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                                                                                           | Strat. Subdivision.                                   | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Genus <b>Calamites</b> , <i>Suckow</i> , 1794. (Acta Acad. Theod.-Palat. v. p. 355; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 292.)— <i>Equisetaceæ</i> .                                                                                                                             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |
| <i>C. varians</i> , <i>Sternberg</i> .                                                                                                                                                                                                                                                       | U.Pal.(Carb. = Lr. Marine beds and L.Coal measures).  | Flora du Monde Prim. ii. p. 50, t. 12; Germar. * <i>Verstein. Steinkoh. Wettin. u. Löbejün.</i> p. 47, t. 20; de Koninck, <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 142. (? <i>C. approximatus</i> , Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 314.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N. S. Wales.        |
| Genus <b>Cordaites</b> , <i>Unger</i> , 1850. (Gen. et Sp. Plantarum, 2nd ed, p. 277; Grand'Eury, <i>Flore Carbonif. Départ. de la Loire</i> , 1877, pt. 1, p. 208.)<br><i>Cycadaceæ</i> .                                                                                                   |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |
| <i>C. Australis</i> , <i>M'Coy</i> .                                                                                                                                                                                                                                                         | Mid. Pal. (U. Dev.=Iguana Creek beds).                | <i>Smyth's Progress Report</i> , 1875, ii. p. 73; <i>ibid.</i> 1876, iii. p. 62; <i>Couchman's id.</i> 1877, iv. pp. 155, 156; * <i>Geol. Survey, Vict. Dec.</i> iv. 1876, p. 22, t. 36, f. 6 and 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Iguana Creek, Vict. |
| <i>C. sp. ind.</i>                                                                                                                                                                                                                                                                           |                                                       | <i>Crepin, Bull. l'Acad. R. Belgique</i> , 1875, xxxix. p. 265.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |
| Genus <b>Glossopteris</b> <sup>1</sup> , <i>Brongniart</i> , 1828. (Prodrome, p. 54; <i>Histoire de Vég. Foss.</i> p. 222; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 644; Feistmantel, <i>Records, Geol. Survey India</i> , 1873, ix. pt. 3, p. 71.)— <i>Filices-Dictyopterideæ</i> . |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |
| <i>G. Browniana</i> , <i>Brongniart</i> .                                                                                                                                                                                                                                                    | U.Pal.(Carb. = Lr. Coal measures, with Marine fauna). | <i>Prodrome</i> , 1828, p. 54; <i>G. Browniana</i> var. <i>Australasiaca</i> , * <i>Histoire</i> , 1828, i. p. 223, t. 62; <i>G. Browniana</i> , <i>Morris, Strzelecki's *Phys. Descrip. N. S. Wales</i> , 1845, p. 247, t. 6, f. 1; <i>id.</i> <i>M'Coy, *Annals Nat. Hist.</i> 1847, xx. p. 150; <i>id. ibid.</i> * <i>Proc. R. Soc. - V. D. Land</i> , 1851, i. p. 307; <i>Dana, *Geol. U.S. Expl. Expd.</i> p. 716; <i>Atlas</i> , t. 14, f. 12? and 13; <i>Plews, Mining Inst. Jour.</i> 1858, vi. pt. 3, pl. 3; <i>Bunbury, Quart. Jour. Geol. Soc.</i> 1860, xvii. p. 330, t. 9, f. 1—4; <i>Göppert, *Syst. Fil. Foss.</i> p. 364, t. 21, f. 9 and 10; <i>Unger, Gen. et Sp.</i> 1850, p. 169; <i>Schimper, *Traité de Pal. Vég.</i> 1869, i. p. 645; <i>Carruthers, Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 354; <i>M'Coy, Smyth's Progress Report</i> , 1874, p. 24; <i>id.</i> <i>Geol. Survey, Vict. Dec.</i> i. 1874, p. 34; <i>Clarke, Remarks Sed. Forms N. S. Wales</i> , 1875, 3rd ed. pp. 19—36; <i>G. Browniana</i> , var. <i>Australasiaca</i> , <i>Feistmantel, Records, Geol. Survey, India</i> , 1876, ix. pt. 3, p. 72; <i>id. ibid. id.</i> ix. pt. 4, p. 124. | N. S. Wales.        |

<sup>1</sup> I am uncertain as to the number of species of *Glossopteris* found in the Carboniferous portion of the N. S. Wales coal-bearing rocks, but an enumeration of all the Australian species known to me will be found in the Secondary portion of the Catalogue (*post*).

## (Plantæ.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                      | Strat. Subdivision.                              | References.                                                                                                                                                                                                                                                                                                                                                                                | Localities, &c.                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Genus <b>Lepidodendron</b> , <i>Sternberg</i> , 1820. (Flora du Monde Prim. fas. 1, p. 25, fas. 4, p. x.; Schimper, <i>Traité de Pal. Vég.</i> 1870, ii. p. 14.)— <i>Lycopodiaceæ</i> . |                                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| <i>L. Australis</i> , <i>M'Coy</i> .                                                                                                                                                    | U.Pal.(Carb. = Avon R. Sandstones).              | <i>L. sp. ind.</i> Exhib. Essay, 1861, p. 163; <i>id.</i> Selwyn, Phys. Geogr. and Geol. Vict. 1866, pp. 10 and 16; <i>id.</i> M'Coy, <i>Annals Nat. Hist.</i> 1862, ix. p. 141; <i>id. ibid.</i> 1867, xx. pp. 197 and 198; <i>Lep. Australis</i> , Smyth's Progress Report, 1874, p. 34; <i>L. (Bergeria)</i> M'Coy, * <i>Geol. Survey, Vict.</i> 1874, Dec. i. p. 37, t. 9.             | Avon R. <i>Vict.</i>                               |
| <i>L. nothum</i> , <i>Unger</i> .                                                                                                                                                       | M.Pal.(Dev.)<br>U.Pal.(Carb. = Lr. Marine beds). | * <i>Denksch. k. Akad. Wien</i> , 1856, xi. p. 175, t. 10, f. 4—8; Carruthers, * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. pp. 350, 353, t. 26, f. 1—5, f. 7—14; Schimper, * <i>Traité de Pal. Vég.</i> 1870, ii. p. 31; Clarke, <i>Sed. Formations N. S. Wales</i> , 3rd ed. 1875, pp. 15 and 17. <i>Ulodendron Templeri</i> , Clarke, <i>Quart. Jour. Geol. Soc.</i> 1848, iv. p. 61. | Mount Wyatt; Ryedale, Mt. Lambie Range, <i>Qu.</i> |
| <i>L. rimosum</i> , <i>Sternberg</i> .                                                                                                                                                  | U.Pal.(Carb. = Lr. Marine beds).                 | Flora du Monde Prim. fas. 1, p. 25, t. 10, f. 1; Schimper, * <i>Traité de Pal. Vég.</i> 1870, ii. p. 33; Clarke, <i>Remarks Sed. Form. N. S. Wales</i> , 1875, 3rd ed. p. 17.                                                                                                                                                                                                              | Rouchel River.                                     |
| <i>L. Veltheimianum</i> , <i>Sternberg</i> .                                                                                                                                            | U.Pal.(Carb. = Lr. Marine beds).                 | Flora du Monde Prim. fas. 4, 1825, p. xii. t. 52, f. 3; Schimper, * <i>Traité de Pal. Vég.</i> 1870, ii. p. 29; de Koninek, <i>Pal. Foss. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 142.                                                                                                                                                                                                   |                                                    |
| <i>L. sp. ind.</i>                                                                                                                                                                      | Upper Pal. (Carb.?).                             | Stutchbury, <i>Parl. Blue Book</i> , Dec. 1854, p. 20, cut.                                                                                                                                                                                                                                                                                                                                | Oaky Creek, near Cobadah, <i>N. S. Wales</i> .     |

Genus **Leptophleum**, *Dawson*, 1862. (*Quart. Jour. Geol. Soc.* xviii. p. 316.)  
*Lycopodiaceæ*.

|                                          |              |                                                                                                                                                                                                                                                  |                                                  |
|------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <i>L. rhombicum</i> ,<br><i>Dawson</i> . | M.Pal.(Dev.) | * <i>loc. cit.</i> p. 316, t. 12, f. 8; t. 17, f. 53; * <i>Foss. Plants, Dev. and Up. Sil. Form. Canada</i> , 1871, p. 36, t. 8, f. 88 and 89; Daintree, <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 289; Carruthers, * <i>ibid.</i> p. 353. | Mount Wyatt; Canoon and Broken River, <i>Qu.</i> |
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Genus **Phyllothea**<sup>1</sup>, *Brongniart*, 1828. (*Prodrome*, p. 151; Schimper, *Traité de Pal. Vég.* 1869, i. p. 288.)—*Equisetaceæ*?

|                                    |                                   |                                                                                                               |  |
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| <i>P. Hookeri</i> , <i>M'Coy</i> . | U.Pal.(Carb. = L. Coal measures). | * <i>Annals Nat. Hist.</i> 1847, xx. p. 157, t. 11, f. 4—7; <i>Proc. R. Soc. V.D. Land</i> , 1851; i. p. 313, |  |
|------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|--|

<sup>1</sup> For further species of this genus see the Secondary or Mesozoic portion of the Catalogue.

(Plantæ.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                              | Strat. Subdivision.                  | References.                                                                                                                                                                                                                                                                                                                                          | Localities, &c.     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                                                                                                                                                                                                                 |                                      | t. 11, f. 4—7; Unger, Gen. et Sp. 1850, p. 73; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 59; Schimper, Traité de Pal. Vég. 1869, i. p. 289. (? <i>Calamites</i> or <i>Equisetum</i> , Feistmantel, Records, Geol. Survey, India, 1876, ix. pt. 3, p. 70.) |                     |
| Genus <i>Sphenopteris</i> , Brongniart, 1828. (Prodrome, p. 50; Hist. Vég. Foss. p. 169; Schimper, Traité Pal. Vég. i. 1869, p. 367.)— <i>Filices-Sphenopterideæ</i> .                                          |                                      |                                                                                                                                                                                                                                                                                                                                                      |                     |
| <i>S. Iguanensis</i> ,<br><i>McCoy</i> .                                                                                                                                                                        |                                      | *Geol. Survey, Vict. Dec. iv. 1876, p. 22, t. 36, f. 3—5 a; Couchman's Progress Report, 1877, iv. p. 158.                                                                                                                                                                                                                                            | Iguana Creek, Vict. |
| Genus <i>Syringodendron</i> , Sternberg, 1824. (Flora du Monde Prim. fas. 3, p. 28, fas. 4, p. xxiv.; Brongniart, Hist. Vég. Foss. 1828, p. 479.)— <i>Lycopodiaceæ</i> .                                        |                                      |                                                                                                                                                                                                                                                                                                                                                      |                     |
| <i>S. dichotomum</i> ,<br><i>Haughton</i> .                                                                                                                                                                     | U. Pal. (Carb.<br>=Lr. Marine beds). | <i>Sigillaria</i> , Jour. Geol. Soc. Dublin, vi. p. 234; <i>Cyclostigma Kiltorkense</i> , Annals Nat. Hist. 1860, v. p. 444; <i>Syringo. dichotomum</i> , Carruthers, Quart. Jour. Geol. Soc. 1872, xxviii. p. 354; <i>id.</i> Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 17.                                                          | Rouchel R.          |
| Genus <i>Ulodendron</i> , Lindley and Hutton, 1831 (Fossil Flora, i. p. 22; Schimper, Traité de Pal. Vég. 1870, ii. p. 38)= <i>Bothrodendron</i> , L. and H., <i>Megaphyton</i> , Artis.— <i>Lycopodiaceæ</i> . |                                      |                                                                                                                                                                                                                                                                                                                                                      |                     |
| <i>U. Templeri</i> , Clarke.                                                                                                                                                                                    |                                      | Vide <i>Lepidodendron nothum</i> , Unger.                                                                                                                                                                                                                                                                                                            |                     |

Notes: (a) *Lepidodendron*. This genus appears to have been found in Australia at an early date by the explorer Leichhardt, on the Manilla River, borders of Queensland, and by Stutchbury on the Storton River (*Parl. B. B.* Dec. 1854). The Rev. W. B. Clarke reports specimens of *Lepidodendron* from the Peel River; near Goonoogoonoo; to the W. of Bathurst, Wellington Valley; and Canoona on the Fitzroy or Mackenzie River. (*Quart. Jour. Geol. Soc.* xvii. p. 356; S. Goldfields, p. 285; also see Keene, "On the Coal Measures of N. S. Wales, with *Spirifer*, *Glossopteris*, and *Lepidodendron*," *Quart. Journ.* xxi. p. 137.)

(b) *Syringodendron*. Mr Carruthers observed in a collection of plants forwarded to the Geological Society of London by the Rev. W. B. Clarke, a fragment of a *Lepidodendroid* plant which he could not distinguish from *S. (Cyclostigma) Kiltorkense*. Haughton (*Quart. Jour.* xxviii. p. 354).

(c) *Sagenaria*. A fragment in the Daintree Collection appeared to indicate, to Mr Carruthers, a third species of *Lepidodendron*, allied to *S. (Lepidodendron) obovata*. Eichwald (*l.c.*).

(d) *Calamites*, *Stigmara*, &c. It is to be noted that the Rev. W. B. Clarke states that *Stigmara*, *Sigillaria*, *Halon* and *Calamites* are common in the Carboniferous rocks of N. S. Wales. (*Quart. Jour.* iv. p. 60.)

(e) *Coniferous Trees*. Trunks of Coniferæ were found by the same observer on the coast of N. S. Wales at Wanniarree in the same beds with *Spirifers* (*Quart. Jour.* iv. p. 60; see also Nicol, *Edinburgh New Phil. Jour.* 1832, iv. p. 153; Dana, *Geol. U.S. Exploring Exp.* p. 714).



## (Rhizopoda—Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.

Genus **Archæocyathus**, Billings, 1861. (Geol. Survey, Canada, Pal. Foss. 1, p. 3.)  
*Hexactinellidæ-Euretidæ.*

|                              |                      |                                                                  |                    |
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| A. ? Clarkei,<br>de Koninck. | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 60, Atlas, t. 2, f. 1. | Yass, N. S. Wales. |
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Genus **Stromatopora**, Goldfuss, 1826 (see p. 3).

|                              |                      |                                                                                                                                                                                                                                      |              |
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| S. concentrica,<br>Goldfuss. | Mid. Pal. (M. Dev.). | *Pet. Germaniæ, 1826, i. p. 22, t. 8, f. 5; Lonsdale, Silurian System, 1839, t. 15, f. 31; Phillips, *Pal. Foss. Devon. 1841, p. 18, t. 10, f. 28; M'Coy, *Brit. Pal. Foss. p. 65; id. Couchman's Progress Report, 1877, iv. p. 158. | Bindi, Vict. |
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Sub-kingdom—Cœlenterata. Class—Actinozoa.

Genus **Alveolites**, Lamarck, 1801 (see p. 10).—*Tabulata*.

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| A. Mackloti, Beyrich.             | U. Pal. (Carb.)      | Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 86, t. 2, f. 10 a and b.                       | Timor.               |
| A. obscurus,<br>de Koninck.       | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 77, Atlas, t. 1, f. 11.                                   | Yass, N. S. Wales.   |
| A. subæqualis, Edwards and Haime. | Mid. Pal. (L. Dev.). | *Polyp. Foss. Terr. Pal. p. 256, t. 17, f. 4; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 77. | Mowara, N. S. Wales. |

Genus **Amplexus**, J. Sowerby, 1814<sup>1</sup> (Min. Con. i. p. 165) = *Cyathopsis*, D'Orbigny.  
*Rugosa*.

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| A. arundinaceus,<br>Lonsdale. | U. Pal. (Carb.)      | *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 267, t. 8, f. 1; M'Coy, Annals Nat. Hist. 1847, xx. p. 228; Clarke, Quart. Jour. Geol. Soc. iv. p. 65; id. S. Goldfields, 1860, p. 285; Edw. and Haime, Polyp. Foss. Terr. Pal. p. 347; M. Edwards, Hist. Nat. Corall. 1860, p. 352; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 149. | Shoalhaven, Curradalla, N. S. Wales. |
| A. Selwyni, de Koninck.       | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 73, Atlas, t. 2, f. 2.                                                                                                                                                                                                                                                                                        | Yass, Quadong, N. S. Wales.          |

<sup>1</sup> Agassiz gives the date of this genus as 1812, with the same reference.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                           | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                          |
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| Genus <b>Axophyllum</b> , <i>M. Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxii.)— <i>Rugosa</i> .                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| A. ? Thomsoni, <i>de Koninck</i> .                                                                                                                                                                                           | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 143, t. 5, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                             | Jarvis Bay, and Cochocholo, N. S. Wales. |
| Genus <b>Billingsia</b> , <i>L. G. de Koninck</i> , 1876. (Foss. Pal. Nouv.-Galles du Sud, p. 75.) <i>Tabulata</i> .                                                                                                         |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| B. <i>alveolaris</i> , <i>de Koninck</i> .                                                                                                                                                                                   | Mid. Pal. (L. Dev.) | *l.c. p. 75, Atlas, t. 2, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yass, N. S. Wales.                       |
| Genus <b>Calamopora</b> , <i>Goldfuss</i> , 1826. (Petrefacta Germ. i. p. 77.) Vide <i>Favosites</i> .                                                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| C. <i>sp. ind.</i> ( <i>Beyrich</i> ).                                                                                                                                                                                       |                     | Vide <i>Favosites</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| Genus <b>Campophyllum</b> , <i>Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxviii.)— <i>Rugosa</i> .                                                                                                 |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| C. <i>flexuosum</i> , <i>Goldfuss</i> .                                                                                                                                                                                      | Mid. Pal. (L. Dev.) | <i>Cyathophyllum</i> , *Petrefacta, i. p. 57, t. 17, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 70.                                                                                                                                                                                                                                                                                                                                                                              | Quandong, N. S. Wales.                   |
| Genus <b>Cladochonus</b> , <i>M'Coy</i> , 1847 (Annals Nat. Hist. xx. p. 227) = <i>Jania</i> , <i>M'Coy</i> (non Lamx).— <i>Tubulosa</i> <sup>1</sup> .                                                                      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| C. <i>tenuicollis</i> , <i>M'Coy</i> .                                                                                                                                                                                       | U. Pal. (Carb.)     | *loc. cit. p. 227, t. 11, f. 8; *Proc. R. Soc. V. D. Land, 1851, i. p. 314, t. 11, f. 9; <i>Young of Syringopora</i> , Edw. and Haime, Polyp. Foss. Terr. Pal. p. 296; <i>id. ibid.</i> Mon. Brit. Carb. Corals, 1852, p. 164; <i>Young Syringopora</i> , M. Edwards, Hist. Nat. Corall. 1860, iii. p. 296; <i>Clad. tenuicollis</i> , de Koninck, Nouv. Rech. Terr. Carb. Belgique, 1872, p. 152, note 2; <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 154, t. 7, f. 2. | Dunvegan and Burragood, N. S. Wales.     |
| Genus <b>Clisiophyllum</b> , <i>Dana</i> , 1846. (Zoophytes, U. S. Explor. Exped. p. 361; Edwards and Haime, Mon. Brit. Foss. Corals, Introd. 1850, p. lxx. Edwards, Hist. Nat. Corall. 1860, iii. p. 402.)— <i>Rugosa</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| C. <i>Australe</i> , <i>Beyrich</i> .                                                                                                                                                                                        | U. Pal. (Carb.)     | *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 85, t. 2, f. 7 a and b, f. 8 a and b, f. 9; de Koninck, Mém. de Paléontologie, 1857—71, viii. p. 78.                                                                                                                                                                                                                                                                                                                                    | Timor.                                   |

<sup>1</sup> Messrs M. Edwards and J. Haime refer the genus *Cladochonus* to the order *Alcyonaria* (Mon. Brit. Foss. Corals, 1850, Introd. p. lxxiv.), but Prof. de Koninck places it in the *Tubulosa*.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                         | Strat. Subdivision.  | References.                                                                                                                                                                                                                                              | Localities, &c.                                  |
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| Genus <b>Cœnites</b> , <i>Eichwald</i> , 1829 ( <i>Zoologia Spec. i.</i> p. 179; <i>Edw. and Haime</i> , <i>Polyp. Foss. Terr. Pal.</i> 1851, p. 301) = <i>Limaria</i> , <i>Stein.</i> — <i>Tabulata</i> . |                      |                                                                                                                                                                                                                                                          |                                                  |
| <i>C. expansus</i> , <i>de Koninck</i> .                                                                                                                                                                   | Mid. Pal. (L. Dev.). | * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 74, t. 2, f. 3.                                                                                                                                                                                       | Yass, <i>N. S. Wales</i> .                       |
| Genus <b>Cyathaxonia</b> , <i>Michelin</i> , 1846. ( <i>Icon. Zooph.</i> pp. 253 and 258).— <i>Rugosa</i> .                                                                                                |                      |                                                                                                                                                                                                                                                          |                                                  |
| <i>C. minuta</i> , <i>de Koninck</i> .                                                                                                                                                                     | U. Pal. (Carb.).     | * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 153, t. 5, f. 10.                                                                                                                                                                              | Burrageood, <i>N. S. Wales</i> .                 |
| Genus <b>Cyathophyllum</b> , <i>Goldfuss</i> , 1826 (see p. 11).— <i>Rugosa</i> .                                                                                                                          |                      |                                                                                                                                                                                                                                                          |                                                  |
| <i>C. Damnoniense</i> , <i>Lonsdale</i> .                                                                                                                                                                  | Mid. Pal. (L. Dev.). | <i>Cystiphyllum</i> , <i>Trans. Geol. Soc.</i> 2nd ser. v. p. 703, t. 58, f. 11; <i>Cyathophyllum</i> , <i>Ed. and H. Mon. Brit. Dev. Corals</i> , 1853, p. 225, t. 50, f. 1; <i>de Koninck</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 72. | Yarralumla, <i>N. S. Wales</i> .                 |
| <i>C. helianthoides</i> , <i>Goldfuss</i> .                                                                                                                                                                | Mid. Pal. (L. Dev.). | * <i>Petrefacta</i> , i. p. 61, t. 20, f. 2; <i>Ed. and H. Mon. Brit. Dev. Corals</i> , 1853, p. 227, t. 51, f. 1; <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 72.                                                                 | Yass, <i>N. S. Wales</i> .                       |
| <i>C. inversum</i> , <i>de Koninck</i> .                                                                                                                                                                   | Up. Pal.? (Carb.?).  | * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 146, t. 5, f. 4.                                                                                                                                                                               | Colocolo, <i>N. S. Wales</i> .                   |
| <i>C. Leichhardtii</i> , <i>Clarke</i> .                                                                                                                                                                   |                      | * <i>Leichhardt's Jour. Overland Exp. Aust.</i> 1847, p. 212.                                                                                                                                                                                            | Burdekin R. about Lat. 19° 58' 11" S, <i>Qu.</i> |
| <i>C. obtortum</i> , <i>Edw. and Haime</i> .                                                                                                                                                               | Mid. Pal. (L. Dev.). | * <i>Polyp. Foss. Terr. Pal.</i> p. 366; * <i>Mon. Brit. Dev. Corals</i> , 1853, p. 225, t. 49, f. 7; <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 71.                                                                              | Yass, <i>N. S. Wales</i> .                       |
| <i>C. vermiculare</i> , <i>Goldfuss</i> .                                                                                                                                                                  | Mid. Pal. (L. Dev.). | * <i>Petrefacta</i> , i. p. 58, t. 17, f. 4; <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 70.                                                                                                                                       | Calalamine and Yarralumla, <i>N. S. Wales</i> .  |
| <i>C.? sp. ind.</i>                                                                                                                                                                                        | U. Pal. (Carb.).     | <i>Beyrich, Abhandl. K. Akad. Wissensch. Berlin</i> , 1865, xxxvi. p. 58, t. 2, f. 5 and 6.                                                                                                                                                              | Timor.                                           |
| Genus <b>Favosites</b> , <i>Lamarck</i> , 1816 (see p. 11).— <i>Tabulata</i> .                                                                                                                             |                      |                                                                                                                                                                                                                                                          |                                                  |
| <i>F. alveolaris</i> , <i>Goldfuss</i> .                                                                                                                                                                   | Mid. Pal. (L. Dev.). | <i>Calamapora</i> , * <i>Petrefacta</i> , i. p. 77, t. 26, f. 1; <i>Favosites</i> , <i>Edw. and Haime</i> , * <i>Polyp. Foss. Terr. Pal.</i> p. 234; <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 79.                               | Calalamine, <i>N. S. Wales</i> .                 |
| <i>F. basaltica</i> , <i>Goldfuss</i> .                                                                                                                                                                    | Mid. Pal. (L. Dev.). | <i>Calamapora</i> , * <i>Petrefacta</i> , i. p. 78, t. 26, f. 4; <i>Favosites</i> , <i>Edw. and Haime</i> , * <i>Polyp. Foss. Terr. Pal.</i> p. 236; <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 78.                               | Calalamine, <i>N. S. Wales</i> .                 |

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                              | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Localities, &c.                                                                                            |
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| <i>Favosites fibrosa</i> ,<br><i>Goldfuss</i> . | Mid. Pal. (L. Dev.). | <i>Calamapora</i> , *Petrefacta, i. p. 82, t. 28, f. 3 <i>a</i> and <i>b</i> ; <i>Favosites</i> , Edw. and H. *Mon. Brit. Dev. Corals, 1853, p. 217, t. 48, f. 3 <i>a</i> and <i>b</i> ; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 81.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadong, N. S. Wales.                                                                                      |
| <i>F. Goldfussii</i> ,<br><i>D'Orbigny</i> .    | Mid. Pal. (L. Dev.). | Prod. d. Pal. 1849, i. p. 107; <i>Favosites</i> , Edw. and H. *Polyp. Foss. Terr. Pal. 1851, p. 235, t. 20, f. 3; <i>id. ibid.</i> *Mon. Brit. Dev. Corals, 1853, p. 214, t. 47, f. 3 <i>a—c</i> ; <i>F. Gothlandica</i> ? Lonsdale, Strzelecki's Phys. Deser. N. S. Wales, 1845, p. 266; <i>F. Goldfussii</i> , Smyth, Progress Rept. 1876, iii. p. 63; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 78; <i>id.</i> M. Edwards, Hist. Nat. Corall. 1860, iii. p. 248; <i>F. Gothlandica</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 91; <i>F. Goldfussi</i> , M'Coy, Geol. Survey, Vict. Dec. iv. 1876, p. 15, t. 35, f. 1 <i>a—d</i> ; <i>id.</i> Couchman's Progress Rep. 1877, iv. pp. 16 and 158. | Yarralumla; Yass Plains, N. S. Wales.<br>Buchan, Gippsland, Vict.                                          |
| <i>F. ovata</i> , Lonsdale.                     | U. Pal. (Carb.).     | <i>Stenopora</i> , Darwin's *Geol. Obs. Volc. Islands, 1844, p. 163; <i>id.</i> Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 263, t. 8, f. 3 <i>a</i> and <i>b</i> ; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 227; <i>Chetetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 712, Atlas, t. 11, f. 9; <i>Chetetes</i> ? Edwards and Haime, Polyp. Foss. Terr. Pal. p. 273; <i>Monticulipora tumida</i> (pars), de Koninck, Nouv. Rech. Terr. Carb. Belgique, p. 143; <i>F. ovata</i> , <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 156, t. 3, f. 5; <i>Stenopora</i> , Darwin, *Geol. Observations, 2nd ed. 1876, p. 179.                                                                                                          | Darlington, Harper's Hill, Glen William, and Burragood, N. S. Wales; Mounts Wellington and Dromedary, Tas. |
| <i>F. polymorpha</i> ,<br><i>Goldfuss</i> .     | Mid. Pal. (L. Dev.). | <i>Calamapora</i> , *Petrefacta, i. p. 79, t. 27, figs. 2—5; <i>Favosites</i> , Edw. and Haime, *Polyp. Foss. Terr. Pal. p. 237; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 79.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Macleay R.                                                                                                 |
| <i>F. reticulata</i> , Blainville.              | Mid. Pal. (L. Dev.). | <i>Alveolites</i> , Dict. Sc. Nat. 1830, ix. p. 309; <i>Favosites</i> , Ed. and H. *Mon. Brit. Dev. Corals, 1853, p. 215, t. 48, f. 1 <i>a</i> and <i>b</i> ; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 80.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yass, N. S. Wales.                                                                                         |

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                          | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                        | Localities, &c.               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <i>F.?</i> <i>sp. ind.</i>                                                                                                                                                                                  | U. Pal. (Carb.)     | Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 86, t. 2, f. 10 <i>a</i> and <i>b</i> .                                                                                                                                                                              | Timor.                        |
| Genus <b>Fistulipora</b> , <i>M'Coy</i> , 1849. (Annals Nat. Hist. iii. p. 130; Brit. Pal. Foss. 1851, p. 11.)— <i>Tabulata</i> .                                                                           |                     |                                                                                                                                                                                                                                                                                    |                               |
| <i>F.?</i> <i>Mulleri</i> , <i>Beyrich</i> .                                                                                                                                                                | U. Pal. (Carb.)     | <i>Heliolites</i> , Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 87, t. 2, f. 11 <i>a</i> — <i>c</i> .                                                                                                                                                                     | Timor.                        |
| Genus <b>Heliolites</b> , <i>Dana</i> , 1846 (see p. 12).— <i>Tabulata</i> .                                                                                                                                |                     |                                                                                                                                                                                                                                                                                    |                               |
| <i>H. porosa</i> , <i>Goldfuss</i> .                                                                                                                                                                        | Mid. Pal. (L. Dev.) | <i>Astrea</i> , *Petrefacta, I. p. 64, t. 21, f. 7; <i>Heliolites</i> , Edw. and Haime, *Mon. Brit. Dev. Corals, 1853, p. 212, t. 47, f. 1 <i>a</i> — <i>f</i> ; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 81.                                                             | Nowara, N. S. Wales.          |
| <i>H. Mulleri</i> , <i>Beyrich</i> .                                                                                                                                                                        |                     | Vide <i>Fistulipora?</i> <i>Mulleri</i> .                                                                                                                                                                                                                                          |                               |
| Genus <b>Lithostrotion</b> , <i>Lhwyd</i> , 1760. (Lith. Brit. Ichnograph. 2nd ed. p. 125; Edwards and Haime, Polyp. Foss. Terr. Pal. p. 432.)— <i>Rugosa</i> .                                             |                     |                                                                                                                                                                                                                                                                                    |                               |
| <i>L. basaltiforme</i> , <i>Con.</i> and <i>Phill.</i>                                                                                                                                                      | U. Pal. (Carb.)     | <i>Astrea</i> , Outlines Geol. England and Wales, 1822, pt. 1, p. 359; <i>Lithostrotion</i> , Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 190, t. 38, f. 3 <i>a</i> and <i>b</i> ; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 145, t. 5, f. 2. | Murrumbidgee R., N. S. Wales. |
| <i>L. irregulare</i> , <i>Phillips</i> .                                                                                                                                                                    |                     | <i>Lithodendron</i> , Geol. York, 1836, ii. p. 202, t. 2, f. 14 and 15; <i>Lithostrotion</i> , Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 198, t. 41, f. 1 <i>a</i> — <i>c</i> ; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 144, t. 5, f. 1.  | Piper's Creek, N. S. Wales.   |
| Genus <b>Lophophyllum</b> , <i>M. Edwards</i> and <i>J. Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxvi.)— <i>Rugosa</i> .                                                                      |                     |                                                                                                                                                                                                                                                                                    |                               |
| <i>L. corniculum</i> , <i>de Koninck</i> .                                                                                                                                                                  | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 148, t. 5, f. 6.                                                                                                                                                                                                                  | Colocolo, N. S. Wales.        |
| <i>L. minutum</i> , <i>de Kon.</i>                                                                                                                                                                          | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 147, t. 5, f. 5.                                                                                                                                                                                                                  | Burragood, N. S. Wales.       |
| Genus <b>Lonsdaleia</b> , <i>M'Coy</i> , 1849 (Annals Nat. Hist. iii. p. 11)= <i>Strombodes</i> , <i>M'Coy</i> (non Schweig.); <i>Lithostrotion</i> , <i>Lonsdale</i> (non <i>Lhwyd</i> ).— <i>Rugosa</i> . |                     |                                                                                                                                                                                                                                                                                    |                               |
| <i>L. Australis</i> , <i>M'Coy</i> .                                                                                                                                                                        | U. Pal. (Carb.)     | <i>Strombodes</i> , *Annals Nat. Hist. 1847, xx. p. 227, t. 11, f. 9; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 314, t. 11, f. 9.                                                                                                                                          | Dunvegan, N. S. Wales.        |

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                         | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                                                                                  |
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| Genus <i>Phillipsastrea</i> , D'Orbigny, 1849. (Prod. d. Pal. p. 107.) <sup>1</sup> — <i>Rugosa</i> .                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| <i>P. Verneuilii</i> , Edw. and Haime.                                                                                     | Mid. Pal. (L. Dev.). | *Polyp. Foss. Terr. Pal. p. 447, t. 10, f. 5; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 69.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cope's Gully, near Hanging Rock, N. S. Wales.                                                    |
| Genus <i>Stenopora</i> , Lonsdale, 1844 <sup>2</sup> . (Darwin's Geol. Obs. Volc. Islands, p. 161 note.) <i>Tabulata</i> . |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| <i>S. crinita</i> , Lonsdale.                                                                                              | U.Pal. (Carb.)       | Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 265, t. 8, f. 5; M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 313; <i>Chaetetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 711, Atlas, t. 11, f. 7; <i>id.</i> Edw. and Haime, Polyp. Foss. Terr. Pal. p. 273; <i>id.</i> Edwards, Hist. Nat. Corall. 1860, iii. p. 272; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>Stenopora</i> , Grange, Dumont d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 89.                                                                                                                                                                 | Illawara, Wollongong, Harper's Hill, Darlington, N. S. Wales.                                    |
| <i>S. gracilis</i> , Dana.                                                                                                 | U.Pal. (Carb.)       | <i>Chaetetes</i> , *Geol. U. S. Expl. Expd. p. 712, Atlas, t. 11, f. 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Illawara and Wollongong, N. S. Wales.                                                            |
| <i>S. informis</i> , Lonsdale.                                                                                             | U.Pal. (Carb.)       | Strzelecki's *Phys. Descrip. V. D. Land, 1845, p. 264, t. 8, f. 4; <i>Chaetetes</i> ? Edw. and Haime, Polyp. Foss. Terr. Pal. p. 274; <i>Stenopora</i> , Grange, Dumont d'Urville's Voy. au Pole Sud, Géologie, 1854, ii. p. 96.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Spring Hill, Tas.                                                                                |
| <i>S. ovata</i> , Lonsdale.                                                                                                | U.Pal. (Carb.)       | Vide <i>Favosites</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| <i>S. Tasmaniensis</i> , Lonsdale.                                                                                         |                      | Darwin's *Geol. Obs. Volc. Islands, 1844, p. 161; Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 262, t. 8, f. 2; <i>Chaetetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 711, Atlas, t. 11, f. 7; <i>Stenopora</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 93, 94, 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>Chaetetes</i> , Edw. and Haime, Polyp. Foss. Terr. Pal. p. 274; <i>Monticulipora tumida</i> (pars), de Koninck, Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, p. 143; <i>Stenopora</i> (? <i>Thamnopora</i> ), Darwin, *Geol. Observations, 2nd ed. 1876, p. 178. | Darlington and Harper's Hill, N. S. Wales. Mounts Dromedary and Wellington, Norfolk Plains, Tas. |

<sup>1</sup> Edwards and Haime give the original reference as "Note sur des Polypiers Fossiles, 1849, p. 12."<sup>2</sup> Placed as a synonym of *Chaetetes* by Edw. and Haime (Polyp. Foss. p. 261). It remains to be proved how many of the succeeding forms are, like *S. ovata*, species of the genus *Favosites*.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                    | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                         | Localities, &c.                          |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Genus <b>Strombodes</b> , <i>M'Coy</i> (non Schweig.), 1849. (Annals Nat. Hist. III. p. 10.)<br>Vide <i>Lonsdaleia</i> .              |                      |                                                                                                                                                                                                                                                                                                     |                                          |
| <i>S. Australis</i> , <i>M'Coy</i> .                                                                                                  |                      | Vide <i>Lonsdaleia Australis</i> .                                                                                                                                                                                                                                                                  |                                          |
| Genus <b>Syringopora</b> , <i>Goldfuss</i> , 1826 (see p. 14).— <i>Tabulata</i> .                                                     |                      |                                                                                                                                                                                                                                                                                                     |                                          |
| <i>S. anuloporoides</i> , de <i>Koninck</i> .                                                                                         | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 76, Atlas, t. 3, f. 1.                                                                                                                                                                                                                                    | Moara Creek, near Tamworth, N. S. Wales. |
| <i>S. ramulosa</i> , <i>Goldfuss</i> .                                                                                                | U. Pal. (Carb.)      | *Petref. Germ. 1826, I. p. 76, t. 25, f. 7; Edwards and Haime, *Mon. Brit. Carb. Corals, 1852, p. 161, t. 46, f. 3 a—c; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 126, t. 12, f. 2; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 156, t. 7, f. 4.          | Burrageood, N. S. Wales.                 |
| <i>S. reticulata</i> , <i>Goldfuss</i> .                                                                                              | U. Pal. (Carb.)      | *Petref. Germ. 1826, I. p. 76, t. 25, f. 8; Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 162, t. 46, f. 1; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 123, t. 11, f. 7 and t. 12, f. 1; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 155, t. 7, f. 3. | Raymond Terrace, N. S. Wales.            |
| Genus <b>Verticillopora</b> , <i>Defrance</i> , 1829. (Dict. Sci. Nat. LVIII. p. 5.)                                                  |                      |                                                                                                                                                                                                                                                                                                     |                                          |
| <i>V. spongioides</i> , <i>Clarke</i> (ms.).                                                                                          |                      | S. Goldfields, 1860, p. 285.                                                                                                                                                                                                                                                                        |                                          |
| Genus <b>Zaphrentis</b> , <i>Rafinesque</i> and <i>Clifford</i> , 1820. (Ann. Sci. Phys. de Bruxelles, v. p. 234.)<br><i>Rugosa</i> . |                      |                                                                                                                                                                                                                                                                                                     |                                          |
| <i>Z. Cainodon</i> , de <i>Koninck</i> .                                                                                              | U. Pal. (Carb.)      | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 151, t. 5, f. 8.                                                                                                                                                                                                                                   | Burrageood, N. S. Wales.                 |
| <i>Z. Gregoryana</i> , de <i>Koninck</i> .                                                                                            | U. Pal. (Carb.)      | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 150, t. 5, f. 7.                                                                                                                                                                                                                                   | Jarvis Bay, and Colocolo, N. S. Wales.   |
| <i>Z. Phillipsi</i> , <i>Edw. and Haime</i> .                                                                                         | U. Pal. (Carb.)      | *Polyp. Foss. Terr. Pal. p. 232, t. 5, f. 1; *Mon. Brit. Carb. Corals, 1852, p. 168, t. 34, f. 2; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 96, t. 10, f. 2; <i>Z. Phillipsi</i> ? <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 149.                       | Colocolo, N. S. Wales.                   |
| <i>Z. robusta</i> , de <i>Kon.</i>                                                                                                    | U. Pal. (Carb.)      | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 152, t. 5, f. 9.                                                                                                                                                                                                                                   | Burrageood, N. S. Wales.                 |
| <i>Z.?</i> <i>sp. ind.</i>                                                                                                            | U. Pal. (Carb.)      | Beyrich, Abhandl. K. Akad. Wis-sench. Berlin, 1865, xxxvi. p. 85, t. 2, f. 4.                                                                                                                                                                                                                       | Timor.                                   |

## (Echinodermata.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                     | Strat. Subdivision. | References.                                                                                                                                                                                                             | Localities, &c.                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <i>Sub-kingdom—Annuloida. Class—Echinodermata.</i>                                                                                                                                     |                     |                                                                                                                                                                                                                         |                                                    |
| Genus <b>Actinocrinus</b> , Miller, 1821. (Nat. Hist. Crinoidea, p. 94; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 123.)<br><i>Crinoidea-Actinocrinidæ.</i> |                     |                                                                                                                                                                                                                         |                                                    |
| <i>A. polydactylus</i> ,<br>Miller.                                                                                                                                                    | U.Pal. (Carb.)      | * <i>loc. cit.</i> p. 103, t. 1, f. 1 and 2 (fig. cæt. exclusis); de Kon. and le Hon. *Crinoïdes, Terr. Carb. Belgique, p. 134, t. 4, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 160, t. 6, f. 3.   | Glen William, N.S.<br>Wales.                       |
| Genus <b>Cyathocrinus</b> , Miller, 1821. (Nat. Hist. Crinoidea, p. 85; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 79.)<br><i>Crinoidea-Cyathocrinidæ.</i>  |                     |                                                                                                                                                                                                                         |                                                    |
| <i>C. Konincki</i> , W. B. Clarke.                                                                                                                                                     | U.Pal. (Carb.)      | ? <i>Pentadia corona</i> , Dana, *Geol. U. S. Expl. Expd. p. 713, Atlas, t. 10, f. 10; <i>Cyathocrinus Konincki</i> , Clarke, ms.; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 164, t. 6, f. 4. | Osterley, Hunter River, N. S. Wales.               |
| Genus <b>Hypocrinus</b> , Beyrich, 1862. (Zeit. Deuts. Geol. Gesellsch. xiv. p. 537.)<br><i>Crinoidea.</i>                                                                             |                     |                                                                                                                                                                                                                         |                                                    |
| <i>H. Schneideri</i> , Beyrich.                                                                                                                                                        | U.Pal. (Carb.)      | <i>loc. cit.</i> p. 537; Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 83, t. 2, f. 16 a—c.                                                                                                                      | Timor.                                             |
| ? Genus <b>Pentadia</b> , Dana, 1847. (American Jour. Sc. iv. p. 152.)                                                                                                                 |                     |                                                                                                                                                                                                                         |                                                    |
| <i>P. corona</i> , Dana.                                                                                                                                                               | U.Pal. (Carb.)      | <i>loc. cit.</i> p. 152; <i>P. reniformis</i> , <i>P. spatangus</i> and <i>P. trigona</i> , Dana, <i>id.</i> p. 152; <i>P. corona</i> , *Geol. U. S. Expl. Expd. p. 713, Atlas, t. 10, f. 11 and 12.                    | Illawara, N. S. Wales.                             |
| Genus <b>Platycrinus</b> , Miller, 1821. (Nat. Hist. Crinoidea, p. 74; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 155.)<br><i>Crinoidea-Platycrinidæ.</i>   |                     |                                                                                                                                                                                                                         |                                                    |
| <i>P. sp. ind.</i>                                                                                                                                                                     | U.Pal. (Carb.)      | <i>Sp. allied to P. lævis</i> (Miller), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 160, t. 6, f. 6.                                                                                                       | Glen William and Burragood, N.S. Wales.            |
| Genus <b>Palæaster</b> , Hall, 1852 (see p. 14).— <i>Asteroidea.</i>                                                                                                                   |                     |                                                                                                                                                                                                                         |                                                    |
| <i>P. Clarkei</i> , de Koninck.                                                                                                                                                        | U.Pal. (Carb.)      | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 166, t. 7, f. 6.                                                                                                                                                       | Russell's Shaft, W. Maitland District, N.S. Wales. |



## (Echinodermata.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                              | Strat. Subdivision. | References.                                                                                                          | Localities, &c.          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|
| Genus <b>Poteriocrinus</b> , <i>Miller</i> , 1821. (Nat. Hist. Crinoidea, p. 67, de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 84.)<br><i>Crinoidea-Cyathocrinidæ</i> . |                     |                                                                                                                      |                          |
| <i>P. sp. ind.</i> (1).                                                                                                                                                                         | U. Pal. (Carb.)     | <i>Sp. allied to P. tenuis</i> (Miller), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 159, t. 6, f. 7.   | Burrageood, N. S. Wales. |
| <i>P. sp. ind.</i> (2).                                                                                                                                                                         | U. Pal. (Carb.)     | <i>Sp. allied to P. radiatus</i> (Austin), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 159, t. 6, f. 2. | Burrageood, N. S. Wales. |

Genus **Synbathocrinus**, *J. Phillips*, 1836. (Geol. York. II. p. 206; Hall, Iowa Geol. Report, 1858, I. pt. 2, p. 559; Meek and Worthen, Illinois Geol. Report, 1873, v. p. 324.)  
*Crinoidea*.

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| <i>S. ogivalis</i> , de Koninck. | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 158, t. 6, f. 1. | Burrageood, N. S. Wales. |
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Genus **Tribrachyocrinus**, *M'Coy*, 1847. (Annals Nat. Hist. xx. p. 228.)  
*Crinoidea-Cyathocrinidæ*.

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|------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <i>T. Clarkei</i> , <i>M'Coy</i> . | U. Pal. (Carb.) | *l. c. p. 228, t. 12, f. 2; *Proc. Roy. Soc. V. D. Land, 1851, I. p. 315, t. 12, f. 2; Clarke, S. Goldfields, 1860, p. 286; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 161, t. 6, f. 5. | Darlington and Raymond Terrace, N. S. Wales. |
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*Sub-kingdom—Annulosa. Class—Crustacea.*

Genus **Bairdia**, *M'Coy*, 1844. (Synopsis Carb. Foss. Ireland, p. 164; Brady, Trans. Zool. Soc. 1865, v. p. 363.)—*Ostracoda-Cypridæ*.

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|-------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <i>B. affinis</i> , <i>Morris</i> . | U. Pal. (Carb.) | *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 291, t. 18, f. 10.                                                                      | Booral, N. S. Wales.   |
| <i>B. curta</i> , <i>M'Coy</i> .    | U. Pal. (Carb.) | *Synopsis Carb. Foss. Ireland, 1844, p. 164, t. 23, f. 6; Annals Nat. Hist. 1847, xx. p. 229; Proc. R. Soc. V. D. Land, 1851, I. p. 316. | Dunvegan, N. S. Wales. |

Genus **Brachymetopus**, *M'Coy*, 1847. (Annals Nat. Hist. xx. p. 229.)—*Trilobita*.

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| <i>B. Strzeleckii</i> , <i>M'Coy</i> . | U. Pal. (Carb.) | *l. c. p. 231, t. 12, f. 1; *Proc. R. Soc. V. D. Land, 1851, I. p. 317, t. 12, f. 1; Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 3; v. Moeller, Bull. Soc. Imp. Nat. Moscou, 1867, XL. pt. 1, p. 190; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 352, t. 24, f. 10. | Dunvegan; Burrageood; Glen William, N. S. Wales. |
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## (Crustacea.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                   | Strat. Subdivision. | References.                                                                                                                                | Localities, &c.        |
|----------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Genus <b>Cythere</b> , O. F. Müller, 1785. (Entom. seu Insecta Test. pp. 34 and 63.)<br><i>Ostracoda-Cytherida</i> . |                     |                                                                                                                                            |                        |
| <i>C. impressa</i> , M'Coy.                                                                                          | U.Pal.(Carb.)       | *Synopsis, Carb. Foss. Ireland, 1844, p. 166, t. 23, f. 16; Annals Nat. Hist. 1847, xx. p. 229; Proc. R. Soc. V. D. Land, 1851, i. p. 316. | Dunvegan, N. S. Wales. |

Genus **Entomis**, Jones, 1861 (see p. 16).

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| <i>E. Jonesi</i> , de Koninck. | U.Pal.(Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 347, t. 24, f. 6. | Muree, N. S. Wales. |
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Genus **Griffithides**, Portlock, 1843. (Geol. Rept. Lond. p. 310.)—*Trilobita*.

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| <i>G. dubius</i> , Etheridge.  | U.Pal.(Carb.) | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 338, t. 18, f. 7.                                                                                                                                                                                                                                           | Don River, Qu.                |
| <i>G. Eichwaldi</i> , Fischer. | U.Pal.(Carb.) | <i>Asaphus</i> , in Eichwald's Geogn. Zool. per Ingriam marisque Balt. 1825, p. 54, t. 4, f. 4; <i>Phillipsia</i> , v. Moeller, Bull. Soc. Imp. Nat. Moscou, 1867, xl. pt. 1, p. 187; <i>Griffithides</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 350, t. 24, f. 8 (for synonymy). | Upper William R. N. S. Wales. |

Genus **Phillipsia**, Portlock, 1843<sup>1</sup>. (Geol. Report, Londonderry, p. 305.)—*Trilobita*.

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|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <i>P. ? parvula</i> , Beyrich.   | U.Pal.(Carb.) | *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 87, t. 2, f. 17 a and b.                                                                                                                                                                                                                                                                                                                                                                                  | Timor.                 |
| <i>P. seminifera</i> , Phillips. | U.Pal.(Carb.) | <i>Asaphus</i> , *Geol. York, 1836, ii. p. 240, t. 22, f. 8—10; <i>Phillipsia</i> , M'Coy, *Brit. Pal. Foss. p. 183; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 114; <i>id.</i> v. Moeller, Bull. Soc. Imp. Nat. Moscou, 1867, xl. pt. 1, p. 159; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 348, t. 24, f. 9 (for synonymy); ? = <i>Sp.</i> near <i>P. gemmulifera</i> (Phill.), M'Coy, Annals Nat. Hist. 1847, xx. p. 231. | Colocolo, N. S. Wales. |

Genus **Polycope**, G. O. Sars, 1865. (Forhandl. Vid.-Sels. Christiania, aar 1865, p. 121.)  
*Ostracoda-Polycopida*.

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|---------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <i>P. simplex</i> , Jones and Kirkby. | U.Pal.(Carb.) | *Mon. Brit. Carb. Entoms. 1874, p. 54, t. 2, f. 1 a—c, f. 10 and 12, t. 5, f. 1; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 346, t. 17, f. 5. | Muree, N. S. Wales. |
|---------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|

<sup>1</sup> Prof. M'Coy mentions a species of *Phillipsia*, resembling *P. gemmulifera*, Phil., as occurring in N. S. Wales.

(Polyzoa.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                      | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <i>Sub-kingdom</i> —Mollusca. <i>Section</i> —Molluscoida. <i>Class</i> —Polyzoa.                                                                                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| Genus <b>Dendricopora</b> , <i>de Koninck</i> , 1877. (Rech. Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 169.)— <i>Cyclostomata-Fenestellidæ</i> ?                                        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| D. Hardyi, <i>de Kon.</i>                                                                                                                                                               | U.Pal.(Carb.)       | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 170, t. 8, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Burrageood, N. S. Wales.                                                             |
| Genus <b>Fenestella</b> (Miller, ms.), <i>Lonsdale</i> , 1839 <sup>1</sup> . (Sil. Syst. p. 677; restricted, King, Permian Foss. Eng. 1850, p. 35.)— <i>Cyclostomata-Fenestellidæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| F. ampla, <i>Lonsdale</i> .                                                                                                                                                             |                     | Vide <i>Protoretrepora</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
| F. antiqua, <i>Lonsdale</i> .                                                                                                                                                           |                     | Vide <i>Protoretrepora</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
| F. densa, <i>Etheridge</i> (ms.).                                                                                                                                                       |                     | Vide <i>F. plebeia</i> , M'Coy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| F. fossula, <i>Lonsdale</i> .                                                                                                                                                           |                     | Vide <i>F. plebeia</i> , M'Coy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| F. gracilis, <i>Dana</i> .                                                                                                                                                              | U.Pal.(Carb.)       | *Geol. U. S. Expl. Expd. p. 711, t. 11, f. 4; <i>F. gracilis</i> ?, <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 177.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Glendon and Burrageood, N. S. Wales.                                                 |
| F. internata, <i>Lonsdale</i> .                                                                                                                                                         | U.Pal.(Carb.)       | Darwin's *Geol. Obs. Volc. Islands, 1844, p. 165; Strzelecki's *Phys.Descr. N. S. Wales, 1845, p. 269, t. 9, f. 2 a and b; M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 710, t. 10, f. 13; ? <i>F. media</i> , <i>Dana</i> , loc.cit. p. 710, t. 10, f. 14; <i>F. internata</i> , <i>Grange</i> , in Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. pp. 84, 87, 94, 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>id.</i> Darwin, *Geol. Obs. Volc. Islands, 1876, 2nd ed. p. 181; <i>id.</i> Tenison-Woods, *Monthly Notices, R. Soc. Tas. 1875-76, p. 49; <i>id.</i> <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 176. | Glendon, Harper's Hill, Raymond Terrace, Bell's Creek and Darlington, N. S. Wales.   |
| F. media, <i>Dana</i> .                                                                                                                                                                 |                     | ? Vide <i>F. internata</i> , <i>Lonsdale</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |
| F. Morrisii, <i>M'Coy</i> .                                                                                                                                                             | U.Pal.(Carb.)       | *Synop. Carb. Foss. Ireland, 1844, p. 202, t. 28, f. 14; <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 176.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Burrageood, N. S. Wales.                                                             |
| F. multiporata, <i>M'Coy</i> .                                                                                                                                                          | U.Pal.(Carb.)       | *Synop. Carb. Foss. Ireland, 1844, p. 203, t. 28, f. 9; <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 175, t. 8, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Burrageood, N. S. Wales.                                                             |
| F. plebeia, <i>M'Coy</i> .                                                                                                                                                              | U.Pal.(Carb.)       | *Synop. Carb. Foss. Ireland, 1844, p. 203, t. 29, f. 3; <i>F. fossula</i> , <i>Lonsdale</i> , Darwin's *Geol. Obs. Volc. Islands, 1844, p. 166; <i>id.</i> <i>ibid.</i> Strzelecki's *Phys. Descr. N. S. Wales, 1845,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Glendon, Harper's Hill, Muree, Korinda, and Glen William, N. S. Wales; Mt Wellington |

<sup>1</sup> Compare *Retihornera*, Kirkenpaur.

(Polyzoa.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Localities, &c.                                                               |
|-----------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                   |                     | p. 269, t. 9, f. 1; <i>id.</i> et <i>F. plebeia</i> ? M'Coy, <i>Annals Nat. Hist.</i> 1847, xx. p. 226; <i>F. fossula</i> , Dana, * <i>Geol. U. S. Expl. Expd.</i> p. 710, Atlas, t. 11, f. 3; <i>id.</i> et <i>F. plebeia</i> , Clarke, <i>S. Goldfields</i> , 1860, p. 286; <i>F. fossula</i> et <i>F. densa</i> , Etheridge, * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 332, t. 25, f. 1; <i>F. fossula</i> , Etheridge jun., * <i>Trans. R. Soc. Vict.</i> 1876, xii. p. 67; <i>id.</i> Darwin, * <i>Geol. Obs. Volc. Islands</i> , 1876, 2nd ed. p. 183; <i>id.</i> et var. <i>densa</i> , Tenison-Woods, * <i>Monthly Notices R. Soc. Tas.</i> 1875-76, p. 49; <i>F. plebeia</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 171, t. 8, f. 2 (for synon.); <i>F. fossula</i> , Grange, Dumont-d'Urville's <i>Voyage au Pole Sud</i> , <i>Géologie</i> , 1854, ii. pp. 87, 95. | and St Patrick's Plains, &c. <i>Tas.</i> ; Gympie and Rockhampton, <i>Qu.</i> |
| <i>F. propinqua</i> , de Koninck. | U. Pal. (Carb.)     | <i>F. ampla</i> , Dana, * <i>Geol. U. S. Expl. Expd.</i> p. 710, t. 11, f. 2 (fig. 1, excl., and non Lonsdale); <i>F. propinqua</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 174, t. 8, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Glenelg and Glen William, N. S. Wales.                                        |
| <i>F. undulata</i> , Phillips.    | U. Pal. (Carb.)     | <i>Retepora</i> , * <i>Geol. York.</i> 1836, ii. p. 199, t. 1, f. 16—18; <i>Fenestella</i> , M'Coy, * <i>Synop. Carb. Foss. Ireland</i> , 1844, p. 204; <i>id.</i> <i>Annals Nat. Hist.</i> 1847, xx. p. 226.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dunvegan, N. S. Wales.                                                        |
| <i>F. sp. ind.</i>                |                     | Etheridge jun., <i>Trans. R. Soc. Vict.</i> 1876, xii. p. 68, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gympie, <i>Qu.</i>                                                            |
| <i>F. sp. ind.</i>                |                     | <i>Sp. near F. antiqua</i> (Lonsdale), M'Coy, <i>Annals Nat. Hist.</i> 1847, xx. p. 226.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Korinda, N. S. Wales.                                                         |

Genus **Glaucanome** (pars, Goldfuss), *Lonsdale*, 1839 (*Sil. Syst.* p. 677; Etheridge jun., *Annals Nat. Hist.* 1877) = *Acanthocladia*, King, 1849, *Penniretepora*, d'Orb. 1849. *Cyclostomata-Thamniscida*.

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|---------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>G. bipinnata</i> , Phillips. | Mid. Pal. (Dev. ?) | * <i>Pal. Foss. Devon.</i> 1841, p. 21, t. 11, f. 33; M'Coy, * <i>Synop. Carb. Foss. Ireland</i> , 1844, p. 199; Morris, <i>Cat. Brit. Foss.</i> 2nd ed. 1854, p. 124; Stutchbury, <i>Parl. Blue Book</i> , Dec. 1854, p. 19. | Pallal, nr. Bengera, N. S. Wales. |
| <i>G. grandis</i> , M'Coy.      | U. Pal. (Carb.)    | * <i>Synop. Carb. Foss. Ireland</i> , 1844, p. 199, t. 28, f. 3; <i>Penniretepora</i> , d'Orbigny, <i>Prod. de Pal.</i> 1849, i. p. 153; <i>Acanthocladia</i> , King, <i>Prom. Fossils Engl.</i> 1850, p.                     | Burrageood, N. S. Wales.          |

## (Polyzoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                  | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                            | Localities, &c.        |
|-------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <i>G. pluma</i> , <i>Phillips</i> . | U.Pal.(Carb.)       | 47; <i>Penniretepora</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 168, t. 5, f. 11.<br><i>Retepora</i> , *Geol. York. 1836, II. p. 199, t. 1, f. 13—15; <i>Glauconome</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 199; <i>id.</i> ? <i>ibid.</i> Annals Nat. Hist. 1847, xx. p. 226; <i>Acanthocladia</i> , King, Perm. Foss. Engl. 1850, p. 47; <i>Glauconome</i> , Clarke, S. Goldfields, 1860, p. 286. | Dunvegan, N. S. Wales. |

Genus *Hemitrypa*, *J. Phillips*, 1841. (Pal. Foss. Devon. p. 21.)*Cyclostomata-Fenestellidæ*.

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| <i>H. sexangulata</i> ,<br><i>Lonsdale</i> . | U.Pal.(Carb.) | Darwin's *Geol. Obs. Volc. Islands, 1844, p. 167; Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 269, t. 9, f. 4; Darwin, * <i>loc. cit.</i> 2nd ed. 1876, p. 183. | Mount Wellington, Tas. |
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Genus *Polypora*, *M'Coy*, 1844. (Synop. Carb. Foss. Ireland, p. 206.)*Cyclostomata-Fenestellidæ*.

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| <i>P. papillata</i> , <i>M'Coy</i> . | U.Pal.(Carb.) | * <i>loc. cit.</i> p. 206, t. 29, f. 10; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 183, t. 7, f. 7. | Buclean, N. S. Wales. |
|--------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|

Genus *Protoretepora*, *de Koninck*, 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 178.)—*Cyclostomata-Elasmoporidæ*?

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| <i>P. ampla</i> , <i>Lonsdale</i> . | U.Pal.(Carb.) | <i>Fenestella</i> , Darwin's *Geol. Obs. Volc. Islands, 1844, p. 163; <i>id.</i> Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 268, t. 9, f. 3 a—d; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Dana, *Geol. U. S. Expl. Expt. p. 710, t. 11, f. 2; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>Polypora</i> ? Etheridge jun., *Trans. R. Soc. Vict. 1876, XII. p. 66, f. 1; <i>Fenestella</i> , Tenison - Woods, *Monthly Notices R. Soc. Tas. 1875—76, p. 48; <i>Protoretepora</i> , de Kon. * <i>loc. cit.</i> p. 180, t. 8, f. 4; <i>Fenestella</i> , Darwin, *Geol. Observations, 2nd ed. 1876, p. 180; <i>Fenestella</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. pp. 84, 94, 95 and 96. | Muree, Loder's Ck, Bell's Ck, Glendon, Stony Creek, N. S. Wales.<br>Spring Hill, Mount Wellington, and E. Marshes, Tas.<br>Gympie, Qu. |
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## (Polyzoa.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.            | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                          | Localities, &c.       |
|-------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <i>P. antiqua</i> , Lonsdale. | U. Pal. (Carb.)     | <i>Fenestella</i> , Trans. Geol. Soc. 1840, v. pp. 697, 703, t. 58, f. 10; <i>id.</i> Phillips, *Pal. Foss. Devon. 1841, p. 24, t. 12, f. 35; <i>F. antiqua</i> ? M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>Protoretepora</i> , de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 179. | Korinda, N. S. Wales. |

Genus *Retepora*, Imperato, 1672. (Hist. Nat. p. 630; Busk, Mon. Foss. Polyzoa Crag. 1859, p. 73.)—*Cheilostom.-Inarticulata*.

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| <i>R.?</i> laxa, de Koninck. | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 182, t. 8, f. 5. | Colocolo; Burragood, N.S. Wales. |
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Genus *Rhombopora*, Meek, 1872. (Hayden's Report, E. Nebraska, p. 141.)  
*Cheilostomata? -Vincularide?*

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| <i>R.?</i> laxa, Etheridge. | U. Pal. (Carb.) | <i>Ceripora</i> ? *Quart. Jour. Geol. Soc. 1872, xxviii. p. 332, t. 25, f. 2. | Gympie, Qu. |
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## Class—Brachiopoda.

Genus *Athyris*, M'Coy, 1844. (Synop. Carb. Foss. Ireland, p. 146; Davidson, Introduction, p. 84.)—*Clistenterata-Spiriferide*.

|                                    |                 |                                                                                                                                                                                                                                                                                                                        |                      |
|------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <i>A. globularis</i> , Phillips.   | U. Pal. (Carb.) | <i>Spirifera</i> , *Geol. York, 1836, ii. p. 220, t. 10, f. 12; <i>Athyris</i> , M'Coy, *Brit. Pal. Foss. p. 434; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 86, t. 17, f. 15—18; <i>Spirigera</i> , Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 75, t. 1, f. 1 a—c.                           | Timor.               |
| <i>A. planosulcata</i> , Phillips. | U. Pal. (Carb.) | <i>Spirifera</i> , *Geol. York, 1836, ii. p. 220, t. 10, f. 5; <i>Athyris</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 148; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 80, t. 16, f. 2—13, 15; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 2, p. 224, t. 11, f. 6.                   | Dungog, N. S. Wales. |
| <i>A. Roysii</i> , Lereille.       | U. Pal. (Carb.) | <i>Spirifer</i> , *Mém. Soc. Géol. France, 1835, ii. p. 39, t. 2, f. 18—20; <i>Athyris</i> , M'Coy, *Brit. Pal. Foss. p. 433; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 84, t. 18, f. 1—11; <i>Spirigera</i> , Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 74, t. 1, f. 2, a and b, f. 3 a—c. | Timor.               |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                     | Strat. Subdivision.           | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Localities, &c.                          |
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| Genus <i>Atrypa</i> , Dalman, 1828 (see p. 18).                                                                                                                                                                        |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
| <i>A. biundata</i> , M'Coy.                                                                                                                                                                                            |                               | Vide <i>Terebratula sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| <i>A. cymbæformis</i> , M'Coy.                                                                                                                                                                                         |                               | Vide <i>Terebratula sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| <i>A. desquamata</i> , J. de C. Sow.                                                                                                                                                                                   | Mid. Pal. (L. Dev.).          | *Trans. Geol. Soc. 2nd ser. 1840, v. p. 704, t. 56, f. 19 and 20; Davidson, *Mon. Brit. Dev. Brach. p. 58, t. 10, f. 9—13, t. 11, f. 1—9; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 98.                                                                                                                                                                                                                                                                                       | Yass, N. S. Wales.                       |
| <i>A. ? Jukesii</i> , M'Coy.                                                                                                                                                                                           | U. Pal. (Carb.).              | <i>Atrypa</i> , *Annals Nat. Hist. 1847, xx. p. 332, t. 13, f. 8; <i>ibid. id.</i> *Proc. R. Soc. V.D. Land, 1851, i. p. 318, t. 13, f. 8.                                                                                                                                                                                                                                                                                                                                                | Dunvegan, N. S. Wales.                   |
| <i>A. plicatella</i> , de Kon.                                                                                                                                                                                         | Mid. Pal. (L. Dev.).          | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 99, Atlas, t. 3, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                          | Yass, N. S. Wales.                       |
| <i>A. reticularis</i> , Linn.                                                                                                                                                                                          | Mid. Pal. (L. and Mid. Dev.). | (See p. 18); Davidson, *Mon. Brit. Dev. Brach. p. 53, t. 10, f. 3 and 4; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 97; <i>Spirigera</i> , M'Coy, Couchman's Progress Report, 1877, iv. p. 158.                                                                                                                                                                                                                                                                                | Yass; Kempsey, N. S. Wales. Bindi, Vict. |
| <i>Ibid.</i> var. <i>aspera</i> , Schlotheim.                                                                                                                                                                          | Mid. Pal. (M. Dev.).          | <i>Terebratulites</i> , Leonhard's *Min. Taschenbuch, 1813, vii. p. 74, t. 1, f. 7 a—c; <i>id.</i> *Petrefactenkunde, 1820, pt. 1, p. 263; 1822, pt. 2, p. 68, t. 18, f. 3; <i>Atrypa</i> , Dalman, *Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 128, t. 4, f. 3; <i>A. reticularis</i> , var. <i>aspera</i> , Davidson, *Mon. Brit. Dev. Brach. 1864, p. 57, t. 10, f. 5—8; <i>Spirigera reticularis</i> , var. <i>aspera</i> , M'Coy, Couchman's Progress Report, 1877, iv. p. 158. | Bindi, Vict.                             |
| Genus <i>Camarophoria</i> , King, 1844. (Annals Nat. Hist. xiv. p. 313; <i>ibid.</i> 1846, xviii. p. 89; Permian Foss. England, 1850, p. 113; Davidson, Introduction, p. 96.)<br><i>Clistenterata-Rhynchonellidæ</i> . |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
| <i>C. crumena</i> , Martin.                                                                                                                                                                                            | U. Pal. (Carb.).              | <i>Conch.</i> ( <i>Anomites</i> ), Pet. Derb. 1809, t. 36, f. 4; <i>Camarophoria</i> , Davidson, *Mon. Brit. Carb. Brach. p. 113, t. 25, f. 3—9; <i>id.</i> Beyrich, Abhandl. K. Akad. Wis-sench. Berlin, 1865, xxxvi. p. 73, t. 1, f. 11 a—c.                                                                                                                                                                                                                                            | Timor.                                   |
| Genus <i>Chonetes</i> , Fischer, 1837 (see p. 19).— <i>Clistenterata-Productidæ</i> .                                                                                                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |
| <i>C. Australis</i> , M'Coy.                                                                                                                                                                                           | Mid. Pal. (M. Dev.).          | Smyth's Progress Report, 1876, iii. p. 62; *Geol. Survey, Vict. Dec. iv. 1876, p. 17, t. 35, f. 3—5; Couchman's <i>id.</i> 1877, iv. p. 16.                                                                                                                                                                                                                                                                                                                                               | Buchan; Lucknow, Vict.                   |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                      | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Localities, &c.                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <i>C. coronata</i> , <i>Conrad</i> .                                                                                                                                                                    | Mid. Pal. (L. Dev.). | <i>Strophomena</i> , *Jour. Acad. Nat. Sc. Philadelphia, 1842, viii. p. 257, t. 14, f. 30; <i>Chonetes</i> , Hall, *Pal. N. York, iv. pt. 1, p. 133, t. 21, f. 9—12; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 87.                                                                                                                                                                                                                                                          | Kempsey, N. S. Wales.                         |
| <i>C. Cracowensis</i> , <i>Etheridge</i> .                                                                                                                                                              |                      | Vide <i>C. Laguessiana</i> , de Koninck.                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |
| <i>C. Hardrensis</i> , <i>Phillips</i> .                                                                                                                                                                |                      | Vide <i>C. Laguessiana</i> , de Koninck.                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |
| <i>C. Laguessiana</i> , de <i>Koninck</i> .                                                                                                                                                             | U. Pal. (Carb.)      | *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 211, t. 12 bis, f. 4; <i>C. Hardrensis</i> , Davidson (non Phill.), *Mon. Brit. Carb. Brit. Brach. p. 186, t. 47, f. 12—18; <i>C. Cracowensis</i> , R. Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 336, t. 18, f. 2; <i>C. Laguessiana</i> , de Kon. *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 39, t. 2, f. 2 (for synonymy); <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 2, p. 207, t. 10, f. 7. | Burrageood, N. S. Wales.<br>Cracow Creek, Qu. |
| <i>C. papilionacea</i> , <i>Phillips</i> .                                                                                                                                                              | U. Pal. (Carb.)      | <i>Spirifera</i> , *Geol. York. 1836, ii. p. 221, t. 11, f. 6; <i>Chonetes</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 212, t. 13, f. 5, t. 13 bis, f. 1; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 182, t. 46, f. 3—6; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 2, p. 205, t. 10, f. 6.                                                                                                                                                | Dungog, N. S. Wales.                          |
| Genus <i>Cyrtina</i> , <i>Davidson</i> , 1858. (Mon. Brit. Carb. Brach. pp. 66 and 67.)<br><i>Clistenterata-Spiriferidæ</i> .                                                                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |
| <i>C. septosa</i> , <i>Phillips</i> .                                                                                                                                                                   | U. Pal. (Carb.)      | <i>Spirifera</i> , *Geol. York. 1836, ii. p. 216, t. 9, f. 7; <i>Cyrtina</i> , Davidson, *Mon. Brit. Carb. Brach. p. 68, t. 14, f. 1—10, t. 15, f. 2; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 2, p. 253, t. 15, f. 2.                                                                                                                                                                                                                                         | Near Yass, N. S. Wales.                       |
| Genus <i>Discina</i> , <i>Lamarck</i> , 1819 (Hist. Nat. Anim. s. Vertèb. vi. pt. 1, p. 236; Davidson, Introduction, p. 126)= <i>Orbiculoidea</i> , d'Orbigny, 1849.<br><i>Tretenterata-Discinidæ</i> . |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |
| <i>D. affinis</i> , <i>M'Coy</i> .                                                                                                                                                                      | U. Pal. (Carb.)      | <i>Orbicula</i> , *Annals Nat. Hist. 1847, xx. p. 236, t. 13, f. 1; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 322, t. 13, f. 1; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3.                                                                                                                                                                                                                                                                                     | Dunvegan, N. S. Wales.                        |



## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.   | Strat. Subdivision.  | References.                                                                                                   | Localities, &c.    |
|----------------------|----------------------|---------------------------------------------------------------------------------------------------------------|--------------------|
| D. Alleghania, Hall. | Mid. Pal. (L. Dev.). | *Pal. N. York, 1867, iv. pt. 1, p. 25, t. 1, f. 17; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 82. | Yass, N. S. Wales. |

Genus *Leptæna*, Dalman, 1828 (see p. 19).—*Clistenterata-Strophomenidæ*.

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|--------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| L. ? interstitialis, Phillips. | Mid. Pal. (L. Dev.). | <i>Orthis</i> , *Pal. Foss. Devon. 1841, p. 61, t. 25, f. 103; <i>Leptæna</i> ? Davidson, *Mon. Brit. Dev. Brach. p. 85, t. 18, figs. 15—18; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 91. | Yass, N. S. Wales. |
| L. nobilis, M'Coy.             | Mid. Pal. (L. Dev.). | *Brit. Pal. Foss. p. 386, t. 2 a, f. 9; Davidson, *Mon. Brit. Dev. Brach. p. 86, t. 18, figs. 19—21; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 92.                                         | Yass, N. S. Wales. |
| L. subæquicostata, de Kon.     | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 93, Atlas, t. 3, f. 2.                                                                                                                                   | Yass, N. S. Wales. |

Genus *Lingula*, Bruguière, 1791. (Encyclop. Méthod. i. pl. 250, f. 1, a, b and c; Lamarck, Système, 1801, p. 140; *id.* Histoire, 1819, vi. pt. 1, p. 257.)  
*Tretenterata-Lingulidæ*.

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| L. ovata, Dana. | U. Pal. (Carb.) | *American Jour. Sc. 2nd ser. iv. p. 152; *Geol. U. S. Expl. Expd. p. 685, Atlas, t. 2, f. 6. | Black Head, Illawara, N. S. Wales. |
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Genus *Orthis*, Dalman, 1828 (see p. 20).—*Clistenterata-Strophomenidæ*.

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| O. Australis, M'Coy.               |                      | Vide <i>O. resupinata</i> , Martin.                                                                                                                                                                                                                                                                                                                                  |                                                                     |
| O. interlineata, J. de C. Sowerby. | Mid. Pal. (L. Dev.). | Trans. Geol. Soc. 2nd ser. v. p. 704, t. 53, f. 11, t. 54, f. 14; Davidson, *Mon. Brit. Dev. Brach. p. 91, t. 17, figs. 18—23; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 89.                                                                                                                                                                                 | Yarradong, N. S. Wales.                                             |
| O. Michelini, L'Eveillé.           | U. Pal. (Carb.)      | <i>Terebratula</i> , *Mém. Soc. Géol. France, 1835, xi. p. 39, t. 2, f. 14—17; <i>Orthis</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 228, t. 13, f. 8, 10 c and d; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. pp. 132, 264, t. 30, f. 6—12; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 216, t. 10, f. 10. | Tasmania ( <i>Davidson</i> ).<br>Burrageood; Colocolo, N. S. Wales. |
| O. resupinata, Martin.             | U. Pal. (Carb.)      | <i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 49, f. 13 and 14; <i>Orthis</i> , de Koninck, *Descrip. Anim.                                                                                                                                                                                                                                                | Lewin's Brook; Burrageood; Colocolo, N. S. Wales.                   |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                           | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Localities, &c.                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>O. spinigera</i> , <i>M'Coy</i> .                                                                                                                                                                                         | U. Pal. (Carb.)     | Foss. Terr. Carb. Belgique, 1843, p. 226, t. 13, f. 9 and 10; <i>O. striatula</i> , M'Coy (non Schloth.), Annals Nat. Hist. 1847, xx. p. 234; <i>O. Australis</i> , * <i>id. ibid.</i> p. 234, t. 13, f. 4 and 4a; <i>O. striatula</i> , M'Coy, Proc. R. Soc. V. D. Land, 1851, i. p. 320; <i>O. Australis</i> , <i>id. *ibid.</i> p. 320, t. 13, f. 4; <i>O. Australis</i> , Clarke, S. Goldfields, 1860, p. 286; <i>O. resupinata</i> , Davidson, *Mon. Brit. Carb. Brach. p. 130, t. 29, f. 1—6, t. 30, f. 1—5; <i>id.</i> de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 214, t. 10, f. 9. | Dunvegan, N. S. Wales.                   |
| <i>O. striatula</i> , <i>Schlot-heim</i> .                                                                                                                                                                                   | U. Pal. (Dev.)      | *Annals Nat. Hist. 1847, xx. p. 235, t. 13, f. 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 321, t. 13, f. 3. <i>Anomia</i> , Leonhard's Min. Taschenbuch, 1813, viii. t. 1, f. 6; <i>id.</i> Davidson, *Mon. Brit. Dev. Brach. p. 87, t. 17, figs. 4—7; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 90.                                                                                                                                                                                                                                                                                                  | Lewin's Brook; Allyn River, N. S. Wales. |
| Genus <i>Orthotetes</i> , <i>Fischer</i> , 1829 (Bull. Soc. Imp. Nat. Moscou, p. 375; de Koninek, Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 42) = <i>Streptorhynchus</i> , King. <i>Clistenterata-Strophomenida</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |
| <i>O. crenistria</i> , <i>Phillips</i> .                                                                                                                                                                                     | U. Pal. (Carb.)     | <i>Spirifera</i> , *Geol. York. 1836, ii. p. 216, t. 9, f. 6; <i>Streptorhynchus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 214, t. 26, f. 1, t. 27, f. 1—5, t. 30, f. 14—16; <i>id.</i> ? Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 82, t. 1, f. 9 a, b; <i>Orthotetes</i> , de Koninek, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 44, t. 2, f. 4 (for synonymy); <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 212, t. 10, f. 8.                                                                                                                                | Dungog, N. S. Wales. Timor.              |
| <i>O. crenistria</i> , var. <i>radialis</i> , <i>Phillips</i> .                                                                                                                                                              | U. Pal. (Carb.)     | <i>Spirifera radialis</i> , Phill. *Geol. York. 1836, ii. p. 220, t. 11, f. 5; <i>Streptorhynchus radialis</i> , Beyrich, *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 80, t. 1, f. 8 a—c; <i>St. crenistria</i> , var. <i>radialis</i> , Davidson, *Mon. Brit. Carb. Brach. p. 129, t. 25, f. 16—18.                                                                                                                                                                                                                                                                                               | Timor.                                   |
| <i>O. Davidsoni</i> , <i>R. Etheridge</i> .                                                                                                                                                                                  | Mid. Pal. (Dev.)    | <i>Streptorhynchus</i> , *Quart. Jour. Geol. Soc. 1872, xxviii. p. 333, t. 17, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Bowen River, Qu.                         |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                   | Strat. Subdivision.               | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Localities, &c.                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Genus <i>Pentamerus</i> , Sowerby, 1813 (see p. 20).— <i>Clistenterata-Pentameridæ</i> .                                             |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| <i>P. pumilus</i> , de Kon.                                                                                                          | Mid. Pal. (L. Dev.).              | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 94, t. 3, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yass, N. S. Wales.                                                              |
| Genus <i>Productus</i> , J. Sowerby, 1814. (Min. Con. i, p. 153; Davidson, Introduction, p. 117.)— <i>Clistenterata-Productidæ</i> . |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| <i>P. aculeatus</i> , Martin.                                                                                                        | U. Pal. (Carb.)                   | <i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 39, f. 9, 10; <i>Productus</i> , J. Sowerby, *Min. Con. 1814, i, p. 156, t. 68, f. 4; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 166, t. 33, f. 16—20; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 204, t. 11, f. 6.<br>Vide <i>P. semireticulatus</i> , Martin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Colocolo, N. S. Wales.                                                          |
| <i>P. antiquatus</i> , J. Sowerby.                                                                                                   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| <i>P. brachythærus</i> , G. Sowerby.                                                                                                 | U. Pal. (Carb.)                   | Darwin's *Geol. Obs. Volc. Islands, 1844, p. 158; Morris, in Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 284, t. 14, f. 4 a—c; de Koninck, *Mém. Soc. R. Sc. Liège, iv. p. 241, t. 16, f. 1; <i>id.</i> *Mon. <i>Productus et Chonetes</i> , 1847, p. 102, t. 16, f. 1 a and b; M'Coy, Annals Nat. Hist. 1847, xx. p. 235; Dana, *Geol. U. S. Expl. Exped. p. 686, Atlas, t. 2, f. 8; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 286; ? <i>P. undulatus</i> , M'Coy, *Annals Nat. Hist. 1847, p. 236, t. 13, f. 2; <i>P. brachythærus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 198, t. 10, f. 4, t. 11, f. 1; Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, rr. pp. 84, 89, 93, 94, 95; d'Orbigny, Paléontologie, <i>ibid.</i> Atlas, 1846, t. 6, f. 6, 7. | Raymond Terrace; Loder's Creek, N. S. Wales.                                    |
| <i>P. Clarkei</i> , R. Etheridge.                                                                                                    | M. Pal. (Dev.)<br>U. Pal. (Carb.) | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 334, t. 17, f. 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 203, t. 10, f. 5, t. 11, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bowen River, Qu. Braxton, N. S. Wales.                                          |
| <i>P. cora</i> , D'Orbigny.                                                                                                          | M. Pal. (Dev.)<br>U. Pal. (Carb.) | *Pal. Voy. d. l'Amérique Mérid. iii. pts. 3 and 4, p. 55, t. 5, f. 8 and 9; Davidson, *Mon. Brit. Carb. Brach. pp. 148, 264, t. 36, f. 4, t. 42, f. 9; R. Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Gympie, Qu. Port Stephen; Tillegary, N. S. Wales. Tasmania ( <i>Davidson</i> ). |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                               | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Localities, &c.                                   |
|--------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <i>P. fimbriatus</i> , <i>J. de C. Sowerby</i> . | U.Pal.(Carb.)       | p. 328, t. 15, f. 1, 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 184, t. 9, f. 1.<br>*Min. Con. 1824, v. p. 85, t. 459, f. 1; Davidson, *Mon. Brit. Carb. Brach. p. 171, t. 33, f. 12 and 15, t. 44, f. 15; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 195, t. 11, f. 5.                                                                                                                                                                                                                                                                                                                                                                                          | Tilleghary; William River, N. S. Wales.           |
| <i>P. fragilis</i> , <i>Dana</i> .               | U.Pal.(Carb.)       | *Am. Jour. Sc. 2nd ser. iv. p. 153; *Geol. U.S. Expl. Exped. p. 686, Atlas, t. 2, f. 7; Clarke, S. Goldfields, 1860, p. 286; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 201, t. 10, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Wollongong Point; Illawara; Braxton, N. S. Wales. |
| <i>P. longispinus</i> , <i>J. Sowerby</i> .      | U.Pal.(Carb.)       | *Min. Con. 1814, i. p. 154, t. 68, f. 1; <i>P. Flemingii</i> , J. Sowerby, *Min. Con. 1814, i. p. 155, t. 68, f. 2; <i>P. setosus</i> , Phill. *Geol. York. ii. p. 214, t. 8, f. 9 and 17; <i>id.</i> McCoy, Annals Nat. Hist. 1847, xx. p. 235; <i>P. Flemingii</i> , de Koninck, *Mém. Soc. R. Sc. Liège, iv. p. 196, t. 10, f. 2 and 3; <i>id. ibid.</i> *Mon. <i>Productus et Chonetes</i> , p. 95, t. 10, f. 2 and 3; <i>P. longispinus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 154, t. 35, f. 5—19; <i>id.</i> R. Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 333, t. 18, f. 9; <i>P. Flemingii</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 191, t. 11, f. 3. | Lewin's Brook; Carroo Creek, N. S. Wales.         |
| <i>P. magnus</i> , <i>Meek and Worthen</i> .     | U.Pal.(Carb.)       | *Proc. Acad. N. Sci. Philadelphia for 1861, p. 142; *Illinois Geol. Survey Report, 1868, vol. iii. p. 528, t. 20, f. 7; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 186, t. 10, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S. E. of Buchan, N. S. Wales.                     |
| <i>P. Murchisonianus</i> , <i>de Koninck</i> .   | U.Pal.(Carb.)       | *Mém. Soc. R. Sc. Liège, 1846, p. 245, t. 16, f. 3; *Mon. <i>Productus et Chonetes</i> , 1847, p. 138, t. 16, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tasmania.                                         |
| <i>P. punctatus</i> , <i>Martin</i> .            | U.Pal.(Carb.)       | <i>Conch. (Anomites)</i> , Martin, *Pet. Derb. 1809, t. 37, f. 6—8; <i>Productus</i> , J. Sowerby, *Min. Con. 1823, iv. p. 22, t. 323; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 172, t. 44, f. 9—16; <i>id.</i> de Koninck, *Foss. Carb. Bleiberg en Carinthie, 1873, p. 30, t. 1, f. 19 (for synonymy); <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 193, t. 10, f. 2; <i>P.</i>                                                                                                                                                                                                                                                                                          | Karua and William Rivers, N. S. Wales.<br>Timor.  |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                   | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Localities, &c.                                                     |
|--------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <i>P. pustulosus</i> ,<br><i>Phillips</i> .                                          | U. Pal. (Carb.)     | <i>punctatus?</i> Beyrich, *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 83, t. 2, f. 3.<br>*Geol. York. 1836, ii. p. 216, t. 7, f. 15; <i>P. rugatus</i> , Phillips, * <i>ibid.</i> f. 16; <i>P. pustulosus</i> , de Verneuil, *Bull. Soc. Géol. de France, xi. p. 177; <i>P. rugatus</i> , G. Sowerby, in Darwin's *Geol. Obs. Volc. Islands, 1844, p. 158; <i>P. pustulosus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 168, t. 41, f. 1—16, t. 42, f. 1—4.<br>Vide <i>P. pustulosus</i> , Phill.                                                                                                                                                                                                                                                                                                     | S. Tasmania.                                                        |
| <i>P. rugatus</i> , <i>Phill.</i><br><i>P. scabriculus</i> ,<br><i>Martin</i> .      | U. Pal. (Carb.)     | <i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 36, f. 5; <i>Productus</i> , J. Sowerby, *Min. Con. 1814, i. p. 157, t. 69, f. 1; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 235; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 169, t. 42, f. 5—8; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 196.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hall's Quarry, Hobarton, Tas.<br>R. William, N. S. Wales.           |
| <i>P. semireticulatus</i> ,<br><i>Martin</i> .                                       | U. Pal. (Carb.)     | <i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 31, figs. 1 and 3, t. 33, f. 4; <i>P. antiquatus</i> , J. Sow. *Min. Con. iv. p. 15, t. 317, figs. 1, 5, and 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 235; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>P. semireticulatus</i> , de Koninck, Mém. Soc. R. Sc. Liège, iv. p. 183, t. 8, f. 1, t. 9, f. 1, t. 10, f. 1; de Koninck, *Mon. <i>Productus et Chonetes</i> , 1847, p. 83, t. 8, f. 1, t. 9, f. 1, t. 10, f. 1; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 149, t. 43, figs. 1—11, t. 44, figs. 1—4; <i>id.</i> Beyrich, Abh. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 82, t. 2, f. 1 and 2; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 188, t. 9, f. 2.<br>Vide <i>P. longispinus</i> , J. Sow. | Lewin's Brook;<br>Glen William;<br>Colocolo, N. S. Wales.<br>Timor. |
| <i>P. setosus</i> , <i>Phillips</i> .<br><i>P. subquadratus</i> ,<br><i>Morris</i> . | U. Pal. (Carb.)     | Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 284; de Kon. Mém. Soc. R. Sc. Liège, iv. p. 203, t. 14, f. 1; <i>id.</i> Mon. <i>Productus et Chonetes</i> , 1847, p. 100, t. 14, f. 1; Clarke, S. Goldfields, 1860, p. 286.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mounts Dromedary and Wellington, Tas.<br>Glendon, N. S. Wales.      |
| <i>P. undatus</i> , <i>De-france</i> .                                               | U. Pal. (Carb.)     | *Dict. Sc. Nat. 1826, XLIII. p. 354; de Koninck, *Mém. Soc. R. Sc. Liège, iv. p. 156, t. 5, f. 3;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Allan River, Tas.<br>Paterson River, N. S. Wales.                   |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                   | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.             |
|--------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>P. undulatus</i> , <i>M'Coy</i> . | U. Pal. (Carb.)     | <i>id.</i> *Mon. <i>Productus</i> et <i>Chonetes</i> , 1847, p. 59, t. 5, f. 3; Davidson, *Mon. Brit. Carb. Brach. p. 161, t. 34, f. 7—13; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 190, t. 11, f. 4. *Annals Nat. Hist. 1847, xx, p. 236, t. 13, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 321, t. 13, f. 2. (? = <i>P. brachythærus</i> , G. Sow.) | Loder's Creek, N. S. Wales. |

Genus *Rhynchonella*, Fischer, 1809 (see p. 21).—*Clistenterata-Rhynchonellidæ*.

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|----------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <i>R. inversa</i> , <i>de Kon.</i>     | U. Pal. (Carb.)                          | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 220, t. 11, f. 11.                                                                                                                                                                                                                                                                                           | Raymond Terrace, N. S. Wales.         |
| <i>R. pleurodon</i> , <i>Phill.</i>    | Mid. Pal. (Up. Dev.).<br>U. Pal. (Carb.) | <i>Terebratula</i> , *Geol. York. 1806, ii. p. 222, t. 12, figs. 25—30 (non 16); <i>Rhynchonella</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 101 and 246, t. 23, figs. 1—15, 16—22? Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 95; <i>id.</i> <i>ibid.</i> 1877, pt. 3, p. 219, t. 9, f. 4. | Sofala and Port Stephen, N. S. Wales. |
| <i>R. pugnus</i> , <i>Martin.</i>      | Mid. Pal. (L. Dev.).                     | <i>Conchylolithus</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 22, figs. 4 and 5; <i>Rhynchonella</i> , Davidson, *Mon. Brit. Carb. Brach. p. 97, t. 22, figs. 1—15; Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 97.                                                                         | Yarradong, N. S. Wales.               |
| <i>R. Timorensis</i> , <i>Beyrich.</i> | U. Pal. (Carb.)                          | Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 72, t. 1, f. 10 a—c.                                                                                                                                                                                                                                                                                     | Timor.                                |

Genus *Siphonotreta*, De Verneuil, 1845 (see p. 21).—*Tretenterata-Discinidæ*.

|                                |                 |                                                      |                       |
|--------------------------------|-----------------|------------------------------------------------------|-----------------------|
| <i>S. curta</i> , <i>Dana.</i> | U. Pal. (Carb.) | *Geol. U. S. Expl. Exped. p. 685, Atlas, t. 2, f. 5. | Glendon, N. S. Wales. |
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Genus *Spirifera*, J. Sowerby, 1816 (see p. 22) = *Trigonotreta*, König.  
*Clistenterata-Spiriferidæ*.

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| <i>S. attenuata</i> , <i>J. de C. Sowerby.</i> |                | Vide <i>S. striata</i> , Martin.                                                                                   |                    |
| <i>S. cabedanus</i> , <i>de Verneuil.</i>      | M. Pal. (Dev.) | *Bull. Soc. Géol. de France, 1845, ii. p. 473, t. 15, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 103. | Yass, N. S. Wales. |
| <i>S. calcarata</i> , <i>J. de C. Sowerby.</i> |                | Vide <i>Spirifera disjuncta</i> , Sow.                                                                             |                    |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                     | Strat. Subdivision.               | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Localities, &c.                                                                    |
|----------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <i>S. Chee-Hiel, de Koninck.</i>       | M. Pal. (Dev.?)                   | Mon. <i>Productus et Chonetes</i> , 1847, p. 141; Mém. Soc. Royale Sc. Liège, iv. p. 248; d'Orbigny, Paléontologie, Dumont-d'Urville's Voy. au Pole Sud, Atlas, 1846, t. 6, f. 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tasmania.                                                                          |
| <i>S. Clarkei, de Kon.</i>             | U. Pal. (Carb.)                   | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 236, t. 13, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wollongong, N. S. Wales.                                                           |
| <i>S. convoluta, Phill.</i>            | M. Pal. (Dev.)<br>U. Pal. (Carb.) | *Geol. Yorksh. II. p. 217, t. 9, f. 7; <i>S. avicula</i> , G. Sow., Darwin's *Geol. Obs. Volc. Is. 1844, App. p. 160; <i>id.</i> Morris, *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 282, t. 16, f. 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>id.</i> Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, II. p. 96; <i>S. convoluta</i> , Davidson, *Mon. Brit. Carb. Brach. p. 35, t. 5, figs. 2—15; Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 335, t. 17, f. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 240, t. 12, f. 2, t. 13, f. 3. | Bowen River, Qu. Black Head, Illawara; Korinda, N. S. Wales. Eagle-hawk Neck, Tas. |
| <i>S. crassicostata, Jukes (ms.).</i>  | U. Pal. (Carb.)                   | Quart. Jour. Geol. Soc. 1847, III. p. 248; Phys. Str. Aust. 1850, p. 16.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Point Puer; Springvale, Tas.                                                       |
| <i>S. crebristria, Morris.</i>         | U. Pal. (Carb.)                   | Strzelecki's *Phys. *Descr. N. S. Wales, 1845, p. 279, t. 15, f. 2; M'Coy, Annals Nat. Hist. 1847, xx. p. 232; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 85; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 225, t. 9, f. 5.                                                                                                                                                                                                                                                                                                                                                                                    | Booral; Dunvegan; Burragood, N. S. Wales.                                          |
| <i>S. Darwinii, Morris.</i>            | U. Pal. (Carb.)                   | ? <i>S. paucicostata</i> , G. Sow., *Darwin's Geol. Obs. Volc. Is. 1844, App. p. 160; <i>S. Darwinii</i> , Morris, *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 279; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Dana, *Geol. U. S. Expl. Expt. p. 684, Atlas, t. 8, f. 7; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>id.</i> de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 230, t. 10, f. 11, t. 11, f. 10, t. 16, f. 1.                                                                                                                                                                                  | Glendon; Harper's Hill; Barraba; Loder's Creek; Black Head, N. S. Wales.           |
| <i>S. disjuncta, J. de C. Sowerby.</i> | Mid. Pal. (L. Dev.)               | Trans. Geol. Soc. 1840, v. 2nd ser. p. 704 (and plate descript.), t. 53, f. 8, t. 54, figs. 12 and 13; Stutchbury, Parl. Blue Book, Dec. 1854, p. 19; Davidson,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pallal; Bowenfels; Sofala; Collin's Flat, N. S. Wales.                             |

(Brachiopoda.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                 | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Localities, &c.                                                                                                                           |
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| <i>S. dubia</i> , Etheridge.       | M. Pal. (Dev.)      | *Mon. Brit. Dev. Brach. p. 23, t. 5, f. 1—12, t. 6, figs. 1—5; Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon., *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 100; <i>S. calcarata</i> , Sow. loc. cit. t. 53, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Gympie, Qu.                                                                                                                               |
| <i>S. duodecimcostata</i> , M'Coy. | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 234, t. 17, f. 2 and 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 320, t. 17, f. 2 and 3; Dana, *Geol. U. S. Expl. Exped. p. 684, Atlas, t. 2, f. 1; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 234, t. 10, f. 12, t. 12, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                | Muree; Wollongong; Bombarderra Creek, N. S. Wales.                                                                                        |
| <i>S. duplicicosta</i> , Phillips. | U. Pal. (Carb.)     | *Geol. York. 1836, ii. p. 218, t. 10, f. 1; Davidson, *Mon. Brit. Carb. Brach. p. 24, t. 3, f. 7—10, t. 4, f. 3, 5—11; de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 198.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R. William, N. S. Wales.                                                                                                                  |
| <i>S. exsuperans</i> , de Koninck. | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 249, t. 15, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Glen William, N. S. Wales.                                                                                                                |
| <i>S. glabra</i> , Martin.         | U. Pal. (Carb.)     | <i>Conch. (Anomites)</i> *Pet. Derb. 1809, t. 48, f. 9 and 10; <i>Spirifera subradiata</i> , G. Sow. Darwin's *Geol. Obs. Volc. Is. 1844, p. 159; <i>id.</i> Morris, *Strzelecki's Phys. Descrip. N. S. Wales, 1845, p. 281, t. 16, f. 1—4; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 87—96; <i>S. glaber</i> , Dana, *Geol. U. S. Expl. Exped. p. 683, Atlas, t. 1, f. 6; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>S. glabra</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 59 and 264, t. 11, f. 1—9, t. 12, f. 1—5, 11 and 12; <i>S. glaber</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 227, t. 11, f. 8, t. 12, f. 1. | Glendon; Muree; Wollongong; Harper's Hill; Raymond Terrace; Morpeth, &c., N. S. Wales. Norfolk Plains; Mts Wellington and Dromedary, Tas. |
| <i>S. kupangensis</i> , Beyrich.   | U. Pal. (Carb.)     | Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 78, t. 1, f. 6 a—c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Timor.                                                                                                                                    |
| <i>S. lata</i> , M'Coy.            | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 233, t. 13, f. 7; *Proc. R. Soc. V. D. Land, 1851, i. p. 319, t. 13, f. 7; Plews, Mining Inst.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lewin's Brook; Colocolo, N. S. Wales.                                                                                                     |



## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                               | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Localities, &c.                         |
|--------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <i>S. latisinuatus</i> , <i>de Koninck</i> .     | M. Pal. (Dev.)      | Jour. vi. pt. 3, t. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 244.                                                                                                                                                                                                                                                                                                                                                                                           | Yass, N. S. Wales.                      |
| <i>S. lævicostata</i> , <i>Val. et Lamarck</i> . | M. Pal. (Dev.)      | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 105, Atlas, t. 3, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                  | Buchan, Vict.                           |
| <i>S. lineata</i> , <i>Martin</i> .              | U. Pal. (Carb.)     | Lamarck's *Histoire, 1819, vi. p. 254; Davidson, *Mon. Brit. Devon. Brach. p. 28, t. 8, f. 4 and 5; Selwyn, Phys. Geogr. and Geol. Vict. 1866, p. 10; M'Coy, Annals Nat. Hist. 1867, xx. p. 198; M'Coy in Smyth's Progress Report, 1874, p. 34; <i>id. ibid.</i> 1876, iii. p. 62; <i>id.</i> Exhib. Essay, 1872, p. 40; <i>id.</i> *Geol. Survey-Vict. Dec. iv. 1876, p. 16, t. 35, f. 2 <i>a</i> and <i>b</i> ; <i>id.</i> Couchman's Progress Report, 1877, iv. pp. 16 and 155. | Raymond Terrace, N. S. Wales.<br>Timor. |
| <i>S. Moosakhailensis</i> , <i>Davidson</i> .    | U. Pal. (Carb.)     | <i>Conck.</i> (Anomites), *Pet. Derb. 1809, t. 36, f. 3; <i>Spirifera</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 62 and 264, t. 13, f. 1—13; Beyrich, Abhandl. K. Akad. Wissen. Berlin, 1865, xxxvi. p. 76, t. 1, f. 13 <i>a—c</i> ; <i>Spirifer lineatus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 224, t. 11, f. 9.                                                                                                                                   | Timor.                                  |
| <i>S. multiplicatus</i> , <i>de Koninck</i> .    | M. Pal. (Dev.)      | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 102, t. 3, f. 5.                                                                                                                                                                                                                                                                                                                                                                                                                         | Yass, N. S. Wales.                      |
| <i>S. nuda</i> , <i>J. de C. Sowerby</i> .       | M. Pal. (Dev.)      | *Trans. Geol. Soc. 1840, v. 2nd ser. p. 704, t. 57, f. 8; Davidson, *Mon. Brit. Dev. Brach. p. 38, t. 4, f. 17—24; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 106.                                                                                                                                                                                                                                                                                                      | Yass, N. S. Wales.                      |
| <i>S. oviformis</i> , <i>M'Coy</i> .             | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 234, t. 13, f. 5 and 6; *Proc. R. Soc. V. D. Land, 1851, i. p. 320, t. 13, f. 5 and 6; Plews, Mining Inst. Jour. vi. 1858, pt. 3, t. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 233, t. 12, f. 3.                                                                                                                                                                                                                             | Barraba; Wollongong, N. S. Wales.       |
| <i>S. paucicostata</i> , <i>G. Sowerby</i> .     |                     | ?Vide <i>S. Darwinii</i> , Morris.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |
| <i>S. phalæna</i> , <i>Dana</i> .                |                     | Vide <i>S. vespertilio</i> , G. Sow.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |
| <i>S. pinguis</i> , <i>J. Sowerby</i> .          | U. Pal. (Carb.)     | *Min. Con. 1820, iii. p. 125, t. 271; Davidson, *Mon. Brit. Carb. Brach. p. 50, t. 10, f.                                                                                                                                                                                                                                                                                                                                                                                          | Glen William; Burrigood, N. S. Wales.   |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                 | Strat. Subdivision.               | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Localities, &c.                                                                                     |
|--------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <i>S. rotundata</i> , G. Sow.<br><i>S. Stokesii</i> , König.       | U. Pal. (Carb.)                   | 1—12; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 238, t. 14, f. 2.<br>Vide <i>S. Tasmaniensis</i> , Morris.<br><i>Trigonotreta</i> , *Icon. Foss. p. 3, t. 6, f. 70; <i>Spirifera trapezoidalis</i> , G. Sowerby, Darwin's *Geol. Obs. Volc. Is. 1844, p. 159; <i>S. Stokesii</i> , Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 283, t. 15, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, II. pp. 94—96; d'Orbigny, Paléontologie, <i>ibid.</i> Atlas, t. 6, f. 12—14 (1846).                                                                                                                                                                                            | Eagle-hawk Neck; Mount Dromedary, Tas.                                                              |
| <i>S. striata</i> , Martin.                                        | M. Pal. (Dev.)<br>U. Pal. (Carb.) | <i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 23, f. 1 and 2; <i>Spirifer attenuatus</i> , J. de C. Sow. *Min. Con. v. p. 151, t. 493; <i>id.</i> McCoy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>S. striata</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 19 and 246, t. 2, f. 12—21, t. 3, f. 2—6; <i>id.</i> Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 334, t. 17, f. 5, ? p. 336, t. 18, f. 8.                                                                                                                                                                                                                                                                      | Dunvegan, N. S. Wales.<br>Bowen River, Peak Downs, Qu.                                              |
| <i>S. Strzeleckii</i> , de Koninck.                                | M. Pal. (Dev.)<br>U. Pal. (Carb.) | <i>S. undifera</i> , var. <i>undulata</i> , Etheridge (non F. Roemer), *Quart. Jour. Geol. Soc. 1872, xxviii. p. 330, t. 15, f. 4, t. 16, f. 3—5; <i>S. Strzeleckii</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 235, t. 13, f. 1, t. 14, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lady Mary Reef, Gympie, Qu.<br>Stony Creek; Raymond Terrace, N. S. Wales.                           |
| <i>S. subradiata</i> , G. Sow.<br><i>S. Tasmaniensis</i> , Morris. | U. Pal. (Carb.)                   | Vide <i>S. glabra</i> , Martin.<br><i>S. rotundata</i> , G. Sow. (non J. Phill.) Darwin's *Geol. Obs. Volc. Is. 1854, p. 159; <i>S. Tasmaniensis</i> , Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 280, t. 15, f. 3 and 4; <i>id.</i> McCoy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Grange, Dumont-D'Urville's Voy. au Pole Sud, Géologie, 1854, II. p. 96; <i>S. Tasmanni</i> , v. Buch, *Abh. K. Akad. Wissen. z. Berlin, 1848, XI. p. 75, f. 3; <i>ibid. id.</i> Quart. Jour. Geol. Soc. III. pt. 2, p. 56; <i>S. Tasmaniensis</i> , var. ? Beyrich, *Abh. K. Akad. Wissen. z. Berlin, 1865, xxxvi. p. 78, t. 1, f. 5; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 248, t. 9, f. 7. | Lewin's Brook; Raymond Terrace, N. S. Wales.<br>Eastern Marshes; Mts Dromedary and Wellington, Tas. |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                    | Strat. Subdivision.               | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Localities, &c.                                                                                               |
|---------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <i>S. trapezoidalis</i> , <i>G. Sowerby</i> .                                         |                                   | Vide <i>S. Stokesii</i> , König.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                               |
| <i>S. triangularis</i> , <i>Martin</i> .                                              | U. Pal. (Carb.)                   | <i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 36, f. 2; <i>Spirifer</i> , J. de C. Sow. *Min. Conch. 1827, vi. p. 120, t. 562, f. 5 and 6; <i>Spirifera</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 27 and 223, t. 5, f. 16—24, t. 50, f. 10—17; <i>Spirifer</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 245, t. 14, f. 4.                                                                                                                                                                                                                                                                       | Strand, N. S. Wales.                                                                                          |
| <i>S. trigonalis</i> , <i>Martin</i> .                                                | U. Pal. (Carb.)                   | <i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 36, f. 1; <i>Spirifera</i> , J. Sowerby, *Min. Con. 1820, iii. p. 117, t. 265, f. 2 and 3; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. pp. 29, 222 and 264, t. 5, f. 25—34; <i>Sp. bisulcata</i> , J. de C. Sow. *Min. Con. v. p. 152, t. 494, f. 1 and 2; <i>id.</i> Davidson, *loc. cit. p. 31, t. 5, f. 1, t. 6, f. 1—19, t. 7, f. 4; <i>id.</i> var. <i>acuta</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 329, t. 16, f. 1, p. 335, t. 17, f. 4; <i>S. bisulcata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 246, t. 14, f. 5. | Port Stephen, Tas. Gympie, Qu. Burragood; Colorado; Gervis Bay, N. S. Wales.                                  |
| <i>S. undifera</i> , var. <i>undulata</i> , <i>Etheridge</i> (non <i>F. Roemer</i> ). |                                   | Vide <i>S. Strzeleckii</i> , de Koninck.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                               |
| <i>S. vespertilio</i> , <i>G. Sowerby</i> .                                           | M. Pal. (Dev.)<br>U. Pal. (Carb.) | Darwin's *Geol. Obs. Volc. Is. 1844, p. 160; Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 252, t. 17, f. 1—3; McCoy, Annals Nat. Hist. 1847, xx. p. 232; Dana, *Geol. U. S. Expl. Exped. p. 685, Atlas, t. 2, f. 3; <i>S. phalæna</i> , <i>id.</i> * <i>ibid.</i> p. 685, Atlas, t. 2, f. 4; <i>S. vespertilio</i> et <i>S. phalæna</i> , Clarke, S. Goldfields, 1860, pp. 286, 287; <i>S. vespertilio</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 329, t. 16, f. 2; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 242, t. 13, f. 4, t. 14, f. 3.                           | Illawarra; Raymond Terrace, &c., N. S. Wales. Gympie, Qu. Eagle-hawk Neck; Mts Dromedary and Wellington, Tas. |
| <i>S. Yassensis</i> , <i>Clarke</i> .                                                 | U. Pal. (Carb.)                   | <i>S. Yassensis</i> , Clarke (ms.), Sed. Formations N. S. Wales, 1875, 3rd ed. p. 15; <i>S. Yassensis</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 104, t. 3, f. 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yass; Duntroon, N. S. Wales.                                                                                  |
| <i>S. sp. ind.</i>                                                                    | U. Pal. (Carb.)                   | Dana, *Geol. U. S. Expl. Exped. p. 684, Atlas, t. 2, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Black Hill; Glendon, N. S. Wales.                                                                             |

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                          | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Localities, &c.                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Genus <i>Spiriferina</i> , D'Orbigny, 1847. (Comp. Rendus, xxv. p. 268; Davidson, Introduction, p. 82.)— <i>Clistenterata-Spiriferida</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |
| <i>S. cristata</i> , v. Schlot-heim.                                                                                                        | U. Pal. (Carb.)     | <i>Terebratulites</i> , Denkschriften K. baier. Akad. Wissen. zu München, 1816, vi. p. 28, t. 1, f. 3 a—c; <i>Spirifer octoplicatus</i> , J. de C. Sow. *Min. Con. 1827, vi. p. 120, t. 562, f. 2—4; <i>Spiriferina cristata</i> , var. <i>octoplicata</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 38, 226 and 267, t. 7, f. 37—47, 60 and 61, t. 52, f. 9, 10 and 13, t. 54, f. 10—12; <i>Spiriferina cristata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 250; <i>id.</i> M'Coy, Couchman's Progress Rep. 1877, iv. p. 155; <i>S. cristatus</i> , Beyrich, Abhandl. K. Akad. Wissen. Berlin, 1865, xxxvi. p. 79, t. 1, f. 4 a—c. | Colocolo, N. S. Wales.<br>Chiltern, Vict.<br>Timor. |
| <i>S. insculpta</i> , Phill.                                                                                                                | U. Pal. (Carb.)     | <i>Spirifera</i> , *Geol. Yorksh. 1836, ii. p. 216, t. 9, f. 2 and 3; <i>Spiriferina</i> , Davidson, *Mon. Brit. Carb. Brach. p. 42, t. 7, f. 48—55; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 252.                                                                                                                                                                                                                                                                                                                                                                                                                          | Colocolo, N. S. Wales.                              |

Genus *Streptorhynchus*, King, 1850. (Mon. Perm. Foss. England, p. 107.)  
Vide *Orthotetes*, Fischer.

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| <i>S. Davidsoni</i> , Etheridge. | Vide <i>Orthotetes</i> . |
| <i>S. crenistria</i> , Phill.    | Vide <i>Orthotetes</i> . |

Genus *Strophalosia*, King, 1844. (Annals Nat. Hist. xiv. p. 313.)  
*Clistenterata-Productida*.

|                                     |                     |                                                                                                                                                                                                                  |                       |
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| <i>S. productoides</i> , Murchison. | M. Pal. (Up. Dev.). | <i>Orthis</i> , *Bull. Soc. Géol. de France, 1840, xi. p. 254, t. 2, f. 7; <i>Strophalosia</i> , Davidson, *Mon. Brit. Dev. Brach. p. 97, t. 19, f. 13—25; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 83. | Kempsey, N. S. Wales. |
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Genus *Strophomena* (Rafinesque, 1820?), Blainville, 1824 (see p. 22).  
*Clistenterata-Strophomenida*.

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| <i>S. rhomboidalis</i> , Wahlenberg, var. <i>analoga</i> , Phillips. | M. Pal. (Dev.)<br>U. Pal. (Carb.) | <i>Producta analoga</i> , Phill. *Geol. York. ii. p. 215, t. 7, fig. 10; <i>S. rhomboidalis</i> , var. <i>analoga</i> , Davidson, *Mon. Brit. Carb. Brach. p. 119, t. 28, f. 1—13; <i>id.</i> Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. pp. 331 | Lady Mary Reef, Gympie; Head of Don R. Qu. Burrageood; Colocolo, N. S. Wales. |
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## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                     | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                                                                |
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|                                                                                                                                                        |                     | and 333, t. 15, figs. 3 and 5, t. 16, f. 7, t. 18, f. 1; <i>Strophomenes analoga</i> , de Kon. Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 208, t. 9, f. 3, t. 11, f. 7 (for synonymy).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                |
| Genus <b>Terebratula</b> , <i>Luid</i> , 1699. (Lith. Brit. Ichnographia, p. 40; Davidson, Introduction, p. 62.)— <i>Clistenterata-Terebratulidæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                |
| <i>T. amygdala</i> , <i>Dana</i> .                                                                                                                     |                     | Vide <i>T. sacculus</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                |
| <i>T. biundata</i> , <i>M'Coy</i> .                                                                                                                    |                     | Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |
| <i>T. cymbæformis</i> , <i>Morris</i> .                                                                                                                |                     | Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |
| <i>T. elongata</i> , <i>Dana</i> .                                                                                                                     |                     | Vide <i>T. sacculus</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                |
| <i>T. hastata</i> , <i>J. de C. Sowerby</i> .                                                                                                          |                     | Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |
| <i>T. sacculus</i> , <i>Martin</i> .                                                                                                                   | U. Pal. (Carb.)     | <i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 46, f. 1 and 2; <i>Terebratula</i> , J. de C. Sow. *Min. Con. 1824, v. p. 65, t. 446, f. 1; <i>T. amygdala</i> , <i>Dana</i> , *American Jour. 1847, iv. p. 152; <i>id. ibid.</i> *Geol. U.S. Expl. Exped. p. 682, Atlas, t. 1, f. 2 a—d; <i>T. elongata</i> , <i>Dana</i> , * <i>ibid.</i> p. 682, Atlas, t. 1, f. 3 a—d; <i>T. sacculus</i> , <i>Davidson</i> , *Mon. Brit. Carb. Brach. p. 14, t. 1, f. 23, 24, 27, 29 and 30; <i>id. de Koninck</i> , *Foss. Carb. Bleiberg en Carinthie, 1872, p. 65, t. 2, f. 16 (for synonymy); <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, pp. 255—257, t. 15, f. 5.                                                                                                                                                                                                                                      | Black Head; Burragood; Strand, N. S. Wales.                                    |
| <i>T. sacculus</i> , var. <i>hastata</i> , <i>J. de C. Sow.</i>                                                                                        | U. Pal. (Carb.)     | <i>T. hastata</i> , *Min. Con. 1824, v. p. 66, t. 446; <i>id. Morris</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 278; <i>T. cymbæformis</i> , <i>id. ibid.</i> p. 278, t. 17, f. 4 and 5; <i>Atrypa</i> , <i>id. M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 231; <i>A. biundata</i> , <i>M'Coy</i> , * <i>ibid.</i> p. 231, t. 13, f. 9; <i>id. ibid.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 318, t. 13, f. 9; <i>A. biundata</i> , et <i>A. cymbæformis</i> , <i>Clarke</i> , S. Goldfields, 1860, p. 286; <i>T. cymbæformis</i> et <i>T. hastata</i> , <i>Grange</i> , Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 84, 85, 89; <i>T. hastata</i> , <i>Davidson</i> , *Mon. Brit. Carb. Brach. pp. 11, 213 and 246, t. 1, f. 1—12, t. 49, f. 11—30; <i>T. sacculus</i> , var. <i>hastata</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 257, t. 15, f. 3 and 4. | Korinda; Lewin's Brook, Raymond Terrace; Muree; Strand; Illawara, N. S. Wales. |

## (Brachiopoda—Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species. | Strat. Subdivision. | References.                                                      | Localities, &c.                 |
|--------------------|---------------------|------------------------------------------------------------------|---------------------------------|
| <i>T. sp. ind.</i> | U. Pal. (Carb.)     | Dana, *Geol. U. S. Expl. Exped. p. 683, Atlas, t. 1, f. 4 and 5. | Illawara; Glendon, N. S. Wales. |

Genus **Trigonotreta**, *König*, 1825 or 1820? (Icon. Foss. Sect. p. 3.) Vide *Spirifera*.

*T. Stokesii*, *König*. | Vide *Spirifera Stokesii*, *König*. |

## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata or Conchifera, &amp;c.).

Genus **Allorisma**, *King*, 1844. (Annals Nat. Hist. xiv. p. 315; Mon. Perm. Foss. England, 1850, p. 196; Meek and Hayden, Pal. Upper Missouri, 1865, p. 36.)  
*Myacea-Anatinidæ*.

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|-------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <i>A. audax</i> , <i>Dana</i> .           | U. Pal. (Carb.) | Vide <i>Edmondia?</i> <i>audax</i> .                                                                                                                                                                                                                                                                                                                                                                                               | Illawara; Glendon; Darlington; Wollongong, N. S. Wales. |
| <i>A. ? curvatam</i> ,<br><i>Morris</i> . |                 | <i>Allorisma</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 270, t. 10, f. 1; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 300; <i>Pholadomya</i> , <i>Dana</i> , *Geol. U. S. Explor. Exped. p. 688, Atlas, t. 3, f. 2; <i>Allorisma</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol., 1854, ii. p. 89; <i>Sanguinolites</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 264, t. 17, f. 4. |                                                         |

Genus **Aphanaia**, *L. G. de Koninck*, 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 302.)  
*? Mytilacea-Aviculidæ*.

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|---------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>A. gigantea</i> , <i>de Kon.</i>   | U. Pal. (Carb.) | * <i>loc. cit.</i> p. 304, t. 21, f. 6.                                                                                                                                                                                                                                                                                                                       | Branxton, N. S. Wales.            |
| <i>A. Mitchellii</i> , <i>M'Coy</i> . | U. Pal. (Carb.) | <i>Inoceramus</i> , *Annals Nat. Hist. 1847, xx. p. 299, t. 14, f. 1; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 323, t. 14, f. 1; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aphanaia</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 303, t. 21, f. 5. | Glendon; Wollongong, N. S. Wales. |

Genus **Arca**, *Linnaeus*, 1758. (Systema, ed. 10, i. p. 693; Lamarck, Prodrome, 1799, p. 87.)  
*Arcacea-Arcidæ*.

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|---------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>A. costellata</i> , <i>M'Coy</i> . | U. Pal. (Carb.) | <i>Byssarca</i> , *Synop. Carb. Foss. Ireland, 1844, p. 72, t. 11, f. 36; <i>Morris</i> , Cat. Brit. Foss. 1854, 2nd ed. p. 184; <i>Palæarca</i> , <i>de</i> | Burrageood, N. S. Wales. |
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## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                 | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                    |
|--------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
|                                                                                                                    |                     | Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 286, t. 16, f. 6 and 7.                                                                                                                                                                                                                                                                                                                                         |                                    |
| <i>A. interrupta</i> , de Koninck.                                                                                 | U. Pal. (Carb.)     | <i>Palæarca</i> , loc. cit. p. 287, t. 16, f. 5.                                                                                                                                                                                                                                                                                                                                                                         | Burrageood, N. S. Wales.           |
| <i>A. subarguta</i> , de Kon.                                                                                      | U. Pal. (Carb.)     | <i>Palæarca</i> , loc. cit. p. 287, t. 16, f. 8.                                                                                                                                                                                                                                                                                                                                                                         | Burrageood, N. S. Wales.           |
| Genus <i>Astarte</i> , J. Sowerby, 1816 <sup>1</sup> . (Min. Con. II. p. 85.)— <i>Lucinacea-Astartidæ</i> .        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <i>A. ? gemma</i> , Dana.                                                                                          | U. Pal. (Carb.)     | <i>Astarte</i> , *American Jour. Sc. 1847, iv. p. 154; <i>id.</i> *Geol. U. S. Expl. Expd. p. 688, Atlas, t. 3, f. 4; <i>id.</i> Clarke, S. Goldfields, p. 287.                                                                                                                                                                                                                                                          | Wollongong Point, N. S. Wales.     |
| Genus <i>Astartila</i> <sup>2</sup> , Dana, 1847. (American Jour. Sc. iv. p. 155.)<br><i>Lucinacea-Astartidæ</i> ? |                     |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <i>A. ? corpulenta</i> , Dana.                                                                                     | U. Pal. (Carb.)     | *Geol. U. S. Expl. Expd. p. 691, Atlas, t. 3, f. 3; Clarke, S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                                                                 | District of Illawara, N. S. Wales. |
| <i>A. cyclas</i> , Dana.                                                                                           | U. Pal. (Carb.)     | *American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 690, Atlas, t. 4, f. 3; Clarke, S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                           | Wollongong Point, N. S. Wales.     |
| <i>A. cyprina</i> , Dana.                                                                                          | U. Pal. (Carb.)     | *American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 3, f. 6; Clarke, S. Goldfields, 1860, p. 287; <i>Pachydomus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 276, t. 18, f. 6.                                                                                                                                                                                        | Wollongong Point, N. S. Wales.     |
| <i>A. cytherea</i> , Dana.                                                                                         | U. Pal. (Carb.)     | *American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 4, f. 1; ? <i>Pachydomus</i> ? <i>pusillus</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 302, t. 16, figs. 1 and 2; ? <i>id.</i> <i>ibid.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 325, t. 16, figs. 1 and 2; <i>A. cytherea</i> , Stutchbury, Parl. Blue Book, 25th July, 1856, p. 8; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287. | Wollongong Point, N. S. Wales.     |
| <i>A. intrepida</i> , Dana.                                                                                        | U. Pal. (Carb.)     | *American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 3, f. 5; Clarke, S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                           | Wollongong Point, N. S. Wales.     |
| <i>A. polita</i> , Dana.                                                                                           | U. Pal. (Carb.)     | *American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 690, Atlas, t. 4, f. 2; Clarke, S. Goldfields, 1860,                                                                                                                                                                                                                                                                                                   | Black Head; Illawara, N. S. Wales. |

<sup>1</sup> Brown and Searles Wood give 1816 as the date of this genus; Morris, and Morris and Lycet, 1817; whilst Agassiz gives 1818.

<sup>2</sup> Non *Astartella*, J. Hall (*Iowa Geol. Survey Report*, 1858, I. pt. 2, p. 715)

(Pelecypoda.)

(Mid. and Up. Palæozoic.)

| Genus and Species.           | Strat. Subdivision. | References.                                                                                                                                                                                                                                    | Localities, &c.                   |
|------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>A. transversa</i> , Dana. | U.Pal. (Carb.)      | p. 287; <i>Pachydomus</i> , de Kon.<br>*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 277, t. 19, f. 4.<br>*American Jour. Sc. 1847, iv. p. 154; *Geol. U. S. Explor. Exped. p. 690, Atlas, t. 4, f. 4; Clarke, S. Goldfields, 1860, p. 287. | Wollongong Point,<br>N. S. Wales. |

Genus *Avicula*, Klein, 1753 (Tent. Meth. Ostrac. pt. 2, p. 120; Lamarek, Prodrôme, 1799, p. 82; Histoire, 1819, vi. pt. 1, p. 146, Stoliezka, Pal. Indica, iii. p. 391)  
= *Pteria*, Scopoli, 1777, Meek, 1876.—*Mytilacea-Aviculidæ*.

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| <i>A. decipiens</i> , de Kon.       | U.Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 309, t. 22, f. 13.                        | Harper's Hill, N. S. Wales. |
| <i>A. Hardyi</i> , de Kon.          | U.Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 308, t. 16, f. 10.                        | Burrageood, N. S. Wales.    |
| <i>A. intumescens</i> , de Koninck. | U.Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 309, t. 22, f. 12.                        | Harper's Hill, N. S. Wales. |
| <i>A. sublunulata</i> , de Koninck. | U.Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 307, t. 16, f. 4.                         | Murree, N. S. Wales.        |
| <i>A. tessellata</i> , Phillips.    |                | Vide <i>Aviculopecten</i> .                                                                |                             |
| <i>A. Volgensis</i> , Dana.         | U.Pal. (Carb.) | Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 4; Clarke, S. Goldfields, 1860, p. 287. | Wollongong, N. S. Wales.    |

Genus *Aviculopecten*, McCoy, 1851. (Annals Nat. Hist. vi. p. 171; Brit. Pal. Foss. 1852, p. 392; Meek and Hayden, Pal. Up. Missouri, 1865, p. 49.)  
*Ostracea-Aviculopectinidæ*.

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|-------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <i>A. eingendus</i> , McCoy.  | U.Pal. (Carb.)      | <i>Pecten</i> , *Synopsis Carb. Foss. Ireland, 1844, p. 90, t. 17, f. 11; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 296, t. 22, f. 8. | Near Dungog, N. S. Wales. |
| <i>A. Clarkei</i> , de Kon.   | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 114, t. 3, f. 10.                                                                                                                                                                               | Kempsey, N. S. Wales.     |
| <i>A. consimilis</i> , McCoy. | U.Pal. (Carb.)      | <i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 91, t. 15, f. 16; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 292, t. 22, f. 6.   | Burrageood, N. S. Wales.  |
| <i>A. depilis</i> , McCoy.    | U.Pal. (Carb.)      | <i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 91, t. 16, f. 11; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 292, t. 22, f. 7.   | Burrageood, N. S. Wales.  |



## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                             | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Localities, &c.                                                                   |
|------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <i>A. elongatus</i> , <i>M'Coy</i> .           | U. Pal. (Carb.)     | <i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 92, t. 16, f. 9; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 293, t. 22, f. 5.                                                                                                                                                                                                                                                                                                                                                                                       | Wollongong, <i>N. S. Wales</i> .                                                  |
| <i>A. Etheridgei</i> , <i>de Koninck</i> .     | Mid. Pal. (L. Dev.) | Foss. Pal. Nouv.-Galles du Sud, 1876, p. 112, t. 3, f. 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yass, <i>N. S. Wales</i> .                                                        |
| <i>A. Fittoni</i> , <i>Morris</i> .            | U. Pal. (Carb.)     | <i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 14, f. 2; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aviculopecten</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 95; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 300, t. 21, f. 4.                                                                                                                                                                                                                                        | Mounts Wellington and Dromedary, <i>Tas.</i><br>Muswelbrook, <i>N. S. Wales</i> . |
| <i>A. Forbesii</i> , <i>M'Coy</i> .            | U. Pal. (Carb.)     | <i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 93, t. 15, f. 20; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 298.                                                                                                                                                                                                                                                                                                                                     | Burrageood, <i>N. S. Wales</i> .                                                  |
| <i>A. granosus</i> , <i>J. de C. Sowerby</i> . | U. Pal. (Carb.)     | <i>Pecten</i> , *Min. Con. 1829, VI. p. 144, t. 574, f. 2; <i>id.</i> Phillips, *Geol. York. 1836, II. p. 213, t. 6, f. 7; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 93; <i>id.</i> Brown, Foss. Conchology, 1849, p. 154, t. 65, f. 16; <i>Avicula granulosa</i> , d'Orb. Prodrome de Pal. 1849, I. p. 135; <i>Aviculopecten granosus</i> , M'Coy, *Brit. Pal. Foss. 1852, p. 392 and 486; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 296, t. 22, f. 10. | Burrageood, <i>N. S. Wales</i> .                                                  |
| <i>A. Hardyi</i> , <i>de Kon.</i>              | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 295, t. 22, f. 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Burrageood, <i>N. S. Wales</i> .                                                  |
| <i>A. Illawarensis</i> , <i>Morris</i> .       | U. Pal. (Carb.)     | <i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 14, f. 3; <i>id.</i> Dana, *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 9; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> Grange, Dumont - d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 89; <i>Aviculopecten</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 301, t. 22, f. 1.                                                                                                                                                          | Illawara; Harper's Hill, <i>N. S. Wales</i> .                                     |
| <i>A. ? imbricatus</i> , <i>Etheridge</i> .    | M. Pal. (Dev.)      | *Quart. Jour. Geol. Soc. 1872, XXVIII. p. 327, t. 14, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gympie, <i>Qu.</i>                                                                |
| <i>A. Knockonniensis</i> , <i>M'Coy</i> .      | U. Pal. (Carb.)     | <i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 95, t. 17, f. 4; <i>Aviculopecten</i> , Morris, Cat. Brit.                                                                                                                                                                                                                                                                                                                                                                                                                                               | Karua, <i>N. S. Wales</i> .                                                       |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                           | Strat. Subdivision.               | References.                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                                                                            |
|----------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <i>A. leniusculus</i> , Dana.                | U. Pal. (Carb.)                   | Foss. 2nd ed. 1854, p. 165; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 294. <i>Pecten</i> , *Amer. Jour. Sc. 1847, iv. p. 160; <i>id.</i> *Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 6; <i>Aviculopecten</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 289, t. 21, f. 3.                                                                                           | Illawara; Mount Gimbela, N. S. Wales.                                                      |
| <i>A. linæformis</i> , Morris <sup>1</sup> . | U. Pal. (Carb.)<br>M. Pal. (Dev.) | <i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 13, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. pp. 93 and 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aviculopecten</i> ? Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 326, t. 14, f. 1; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 291, t. 22, f. 4. | Norfolk Plains; Eastern Marshes, Tas.<br>Gympie, Qu.<br>Wollongong and Muree, N. S. Wales. |
| <i>A. lineatus</i> , Plews.                  | U. Pal. (Carb.)                   | <i>Pecten</i> , Mining Inst. Jour. 1858, vi. pt. 3, t. 4.                                                                                                                                                                                                                                                                                                                                                                     | N. S. Wales.                                                                               |
| <i>A. M'Leayi</i> , de Koninck.              | Mid. Pal. (L. Dev.)               | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 114, t. 3, f. 11.                                                                                                                                                                                                                                                                                                                                                                   | M'Leay R., N. S. Wales.                                                                    |
| <i>A. mitis</i> , Dana.                      | U. Pal. (Carb.)                   | <i>Pecten</i> , *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 8.                                                                                                                                                                                                                                                                                                                                                        | Glendon, N. S. Wales.                                                                      |
| <i>A. multiradiatus</i> , Etheridge.         | M. Pal. (Dev.)                    | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 327, t. 13, f. 1.                                                                                                                                                                                                                                                                                                                                                                   | Gympie, Qu.                                                                                |
| <i>A. profundus</i> , de Koninck.            | U. Pal. (Carb.)                   | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 299, t. 22, f. 3.                                                                                                                                                                                                                                                                                                                                                            | Harper's Hill, N. S. Wales.                                                                |
| <i>A. ptychotis</i> , M'Coy.                 | U. Pal. (Carb.)                   | <i>Pecten</i> , *Annals Nat. Hist. 1847, xx. p. 298, t. 14, f. 2; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, I. p. 322, t. 14, f. 2; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 294.                                                                                                                                                                                                    | Dunvegan; Burragood; Wollongong, N. S. Wales.                                              |
| <i>A. squamuliferus</i> , Morris.            | U. Pal. (Carb.)                   | <i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 278, t. 14, f. 1; Dana, *Geol. U. S. Explor. Exped. p. 705; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 298; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.                                                                                                         | Mounts Dromedary and Wellington, Tas.<br>Harper's Hill, N. S. Wales.                       |
| <i>A. subquinque lineatus</i> , M'Coy.       | U. Pal. (Carb.)                   | <i>Pecten</i> , *Annals Nat. Hist. 1847, xx. p. 298, t. 17, f. 1; <i>P. cemptus</i> , Dana, *Amer. Jour. Sc. 1847, iv. p. 160 (non M'Coy); <i>id.</i> *Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 5; <i>P. subquinque lineatus</i> , M'Coy, *Proc.                                                                                                                                                                    | Harper's Hill; Muree, N. S. Wales.                                                         |

<sup>1</sup> Non *A. linæformis*, Winchell.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.            | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                   |
|-------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                               |                     | R. Soc. V. D. Land, 1851, i. p. 322, t. 17, f. 1; <i>Aviculopecten</i> , <i>id.</i> de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 295, t. 22, f. 2.                                                                                                                                                                                                                                                                                                                                                                   |                                   |
| A. Tasmaniensis, M'Coy (ms.). | U.Pal.(Carb.)       | Selwyn, Proc. R. Soc. Tas. 1855, iii. pt. 1, p. 120.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | New Norfolk, Tas.                 |
| A. tenuicollis, Dana.         | U.Pal.(Carb.)       | <i>Pecten</i> , *Amer. Jour. Sc. 1847, iv. p. 160; <i>id.</i> *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                 | Harper's Hill, N. S. Wales.       |
| A. tessellatus, Phill.        | U.Pal.(Carb.)       | <i>Avicula</i> , *Geol. York. ii. p. 211, t. 6, f. 6; ? <i>id.</i> de Koninek, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 134, t. 6, f. 2, 4, and 11; <i>Meleagrina</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 81; <i>Avicula</i> , <i>id.</i> Annals Nat. Hist. 1847, xx. p. 299; <i>Avicula</i> , Brown, *Foss. Conchology, 1849, p. 162, t. 66**, f. 31; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 166; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 298, t. 22, f. 11. | Dunvegan; Burragood, N. S. Wales. |

Genus *Cardinia*, L. Agassiz, 1841<sup>1</sup> (Traduct. de la Conch. Mineral. de Sowerby, p. 207 !; Etudes Crit., Mon. Myes, p. 220) = *Pachyodon*, Stutchbury.  
*Lucinacea-Astartidae*?

|                    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |
|--------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| C.? costata, Dana. |               | Vide <i>Pleurophorus Morrisii</i> , de Koninek.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |
| C.? cuneata, Dana. | U.Pal.(Carb.) | *Amer. Jour. Sc. 1847, iv. p. 156; *Geol. U. S. Explor. Exped. p. 692, Atlas, t. 4, f. 6; Clarke, S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wollongong Point, N. S. Wales.     |
| C.? exilis, M'Coy. |               | Vide <i>C.? recta</i> , Dana.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| C.? recta, Dana.   | U.Pal.(Carb.) | <i>Cardinia</i> , *Amer. Jour. Sc. 1847, iv. p. 156; <i>C.? exilis</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 302, t. 15, f. 1; <i>C.? recta</i> , Dana, *Am. Jour. Sc. 1848, v. p. 434; <i>id.</i> *Geol. U. S. Expl. Exped. p. 691, Atlas, t. 4, f. 5; <i>C.? exilis</i> , M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 326, t. 15, f. 1; <i>C. exilis</i> , Clarke, S. Goldfields, 1860, p. 287; <i>C. recta</i> , Stutchbury, 15th Report, Parl. Blue Book, 25th July, 1856, p. 8; <i>C. exilis</i> , de Kon. Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 271, t. 18, f. 2. | Illawara; Wollongong, N. S. Wales. |

<sup>1</sup> Agassiz states that he first indicated this genus in a communication made to the *Société helvétique des Sciences Naturelles* at Bâle in 1833, and described it in the German and French translation of Sowerby's *Mineral Conchology* in 1841.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                              | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Genus <i>Cardiomorpha</i> , <i>L. G. de Koninck</i> , 1842. (Descrip. Anim. Foss. Terr. Carb. Belgique, p. 101; Stoliczka, Pal. Indica, iii. p. 66.)— <i>Myacea-Anatinidæ</i> ? |                     |                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>C. gryphoides</i> , <i>de Koninck</i> .                                                                                                                                      | U.Pal.(Carb.)       | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 268, t. 18, f. 4.                                                                                                                                                                                                                                                                                                                                   | Stony Creek, W. Maitland, N. S. Wales. |
| <i>C. ?striatella</i> , <i>de Kon.</i>                                                                                                                                          | U.Pal.(Carb.)       | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 268, t. 20, f. 3.                                                                                                                                                                                                                                                                                                                                   | Karua, N. S. Wales.                    |
| Genus <i>Cardium</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 678; Lamarek, 1799, Prodrome, p. 86.)— <i>Veneracea-Cardiidæ</i> .                                          |                     |                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>C. Australis</i> , <i>Dana</i> .                                                                                                                                             |                     | Vide <i>Conocardium Australe</i> , M'Coy.                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <i>C. ferox</i> , <i>Dana</i> .                                                                                                                                                 |                     | Vide <i>Conocardium ferox</i> , <i>Dana</i> .                                                                                                                                                                                                                                                                                                                                                        |                                        |
| Genus <i>Clarkia</i> , <i>L. G. de Koninck</i> , 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 266.) <i>Myacea-Saxicavidæ</i> ?                                              |                     |                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>C. myiformis</i> , <i>Dana</i> .                                                                                                                                             | U.Pal.(Carb.)       | <i>Pyramus</i> , *Am. Jour. Science, 1847, iv. p. 157; <i>Mænia</i> , *Geol. U. S. Explor. Exped. p. 697, Atlas, t. 6, f. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 257; <i>Clarkia</i> , <i>de Koninck</i> , *loc. cit. p. 267, t. 18, f. 1.                                                                                                                                                    | Wollongong, N. S. Wales.               |
| Genus <i>Cleobis</i> , <i>Dana</i> , 1847. (American Jour. Sc. iv. p. 154.)<br>Vide <i>Notomya</i> , M'Coy.                                                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>C. gracilis</i> , <i>Dana</i> .                                                                                                                                              |                     | Vide <i>Mæonia gracilis</i> , <i>Dana</i> .                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <i>C. grandis</i> , <i>Dana</i> .                                                                                                                                               |                     | Vide <i>Mæonia grandis</i> , <i>Dana</i> .                                                                                                                                                                                                                                                                                                                                                           |                                        |
| <i>C. recta</i> , <i>Dana</i> .                                                                                                                                                 |                     | Vide <i>Mæonia recta</i> , <i>Dana</i> .                                                                                                                                                                                                                                                                                                                                                             |                                        |
| Genus <i>Conocardium</i> , <i>Bronn</i> , 1835 (Lethæa Geog. i. pt. 1, p. 91)= <i>Pleurorhynchus</i> , Phillips.— <i>Veneracea-Cardiidæ</i> .                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>C. Australe</i> , <i>M'Coy</i> .                                                                                                                                             | U.Pal.(Carb.)       | <i>Pleurorhynchus</i> , *Annals Nat. Hist. 1847, xx. p. 300, t. 16, f. 4; <i>Cardium</i> , <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 701, Atlas, t. 18, f. 2; <i>Pleurorhynchus</i> , M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 324, t. 16, f. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>C. Australe</i> ? <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 284. | Wollongong; Glendon, N. S. Wales.      |
| <i>C. ferox</i> , <i>Dana</i> .                                                                                                                                                 | U.Pal.(Carb.)       | <i>Cardium</i> , *Geol. U. S. Expl. Expd. p. 701, Atlas, t. 18, f. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                | Wollongong Point, N. S. Wales.         |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.               | Strat. Subdivision.  | References.                                                                                                                                                                                                                                 | Localities, &c.    |
|----------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <i>C. Sowerbyi</i> , de Koninck. | Mid. Pal. (L. Dev.). | <i>Cardium aliforme</i> , Sow. Trans. Geol. Soc. 1840, v. t. 56, f. 2; <i>Pleurorhynchus aliformis</i> , Phillips, *Pal. Foss. Devon. 1840, p. 34, t. 17, f. 51; <i>C. Sowerbyi</i> , de Kon.*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 109. | Yass, N. S. Wales. |

Genus *Cypricardia*, Lamarck, 1819. (Histoire d. Anim. s. Verteb. vi. pt. 1, p. 27.)  
*Veneracea-Cyprinidæ*.

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|------------------------------|--------------------------------------------|
| <i>C. acutifrons</i> , Dana. | Vide <i>Modiolopsis acutifrons</i> , Dana. |
| <i>C. arcodes</i> , Dana.    | Vide <i>Modiolopsis arcodes</i> , Dana.    |
| <i>C. imbricata</i> , Dana.  | Vide <i>Modiolopsis imbricata</i> , Dana.  |
| <i>C. prærupta</i> , Dana.   | Vide <i>Modiolopsis prærupta</i> , Dana.   |
| <i>C. rugulosa</i> , Dana.   | Vide <i>Pachydomus carinatus</i> , Morris. |
| <i>C. siliqua</i> , Dana.    | Vide <i>Modiolopsis siliqua</i> , Dana.    |
| <i>C. simplex</i> , Dana.    | Vide <i>Modiolopsis simplex</i> , Dana.    |
| <i>C. sinuosa</i> , Dana.    | Vide <i>Mæonia axinia</i> , Dana.          |

Genus *Edmondia*, de Koninck, 1842. (Descr. Anim. Foss. Ter. Carb. Belgique, p. 66.)  
*Myacea-Anatinidæ*.

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|----------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>E. ? audax</i> <sup>1</sup> , Dana. | U. Pal. (Carb.) | <i>Allorisma</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Pholadomya</i> , *Geol. U. S. Expl. Expt. p. 687, Atlas, t. 3, f. 1; <i>id. et Allorisma</i> , Clarke, S. Goldfields, 1860, p. 287.                                          | Wollongong Point, N. S. Wales.       |
| <i>E. concentrica</i> , Etheridge.     | M. Pal. (Dev.)  | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 328, t. 13, f. 2.                                                                                                                                                                              | Gympie, Qu.                          |
| <i>E. ? Glendonensis</i> , Dana.       | U. Pal. (Carb.) | <i>Pholadomya (Homomya)</i> , *Geol. U. S. Expl. Expt. p. 687, Atlas, t. 2, f. 12; <i>Homomya</i> , Stutchbury, 15th Report, Parl. Blue Book, 25th July, 1856, p. 8.                                                                     | Glendon, N. S. Wales.                |
| <i>E. intermedia</i> , de Koninck.     | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 270, t. 20, f. 4.                                                                                                                                                                       | Near Morpeth, N. S. Wales.           |
| <i>E. nobilissima</i> , de Koninck.    | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 269, t. 20, f. 2.                                                                                                                                                                       | Near Morpeth, N. S. Wales.           |
| <i>E. obovata</i> , Etheridge.         | M. Pal. (Dev.)  | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 328, t. 13, f. 3.                                                                                                                                                                              | Gympie, Qu.                          |
| <i>E. ? striatocostata</i> , McCoy.    | U. Pal. (Carb.) | <i>Pullastra ?</i> *Annals Nat. Hist. 1847, xx. p. 305, t. 14, f. 3; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 328, t. 14, f. 3; <i>Edmondia ?</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 269, t. 18, f. 3. | Dunvegan and Burragood, N. S. Wales. |

<sup>1</sup> The generic position of *Edmondia ? audax* and *E. ? Glendonensis*, is uncertain, as the internal characters have not been described; Dana concludes that the pallial line is entire. It is very hazardous to venture an opinion on a large number of these Australian fossils, without a direct examination of specimens.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Localities, &c.                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Genus <i>Eurydesma</i> , <i>Morris</i> and <i>G. B. Sowerby</i> , 1845. (Strzelecki's Phys. Descr. N. S. Wales, p. 275.)— <i>Chamacea</i> ?- <i>Tridacnidae</i> ? |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |
| <i>E. cordata</i> , <i>Morris</i> .                                                                                                                               | U.Pal. (Carb.)      | <i>Isoecardia</i> ? <i>sp.</i> <i>J. de C. Sowerby</i> , Mitchell's Three Expds. Int. E. Austr. 1838, i. p. 15, t. 2, figs. 1 and 2; <i>Eurydesma</i> , <i>Morris</i> , Strzelecki's *Phys. Descr. N.S. Wales, 1845, p. 276, t. 12; <i>id.</i> <i>M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 299; <i>id.</i> <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 700; <i>id.</i> <i>Grange</i> , Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 89; <i>id.</i> <i>Clarke</i> , S. Goldfields, 1860, p. 287. | Illawarra; Arthur's Hill, N. S. Wales.  |
| <i>E. elliptica</i> , <i>Dana</i> .                                                                                                                               | U.Pal. (Carb.)      | *American Jour. Sc. 1847, iv. p. 158; *Geol. U.S. Expl. Expd. p. 700, Atlas, t. 7, f. 6.                                                                                                                                                                                                                                                                                                                                                                                                                         | Harper's Hill, N. S. Wales.             |
| <i>E. globosa</i> , <i>Dana</i> .                                                                                                                                 | U.Pal. (Carb.)      | *American Jour. Sc. 1847, iv. p. 158; *Geol. U.S. Expl. Expd. p. 700, Atlas, t. 7, f. 7; <i>Clarke</i> , S. Goldfields, 1860, p. 287.                                                                                                                                                                                                                                                                                                                                                                            | Harper's Hill, N. S. Wales.             |
| <i>E. sacculus</i> , <i>M'Coy</i> <sup>1</sup> .                                                                                                                  | U.Pal. (Carb.)      | <i>Pachydomus</i> , *Annals Nat. Hist. 1847, xx. p. 301, t. 14, f. 5; <i>Eurydesma</i> , <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 700, Atlas, t. 7, f. 8; <i>id.</i> American Jour. 1848, v. p. 434; <i>Pachydomus</i> , <i>M'Coy</i> , *Proc. R. Soc. V. D. Land, 1851, i. p. 325, t. 14, f. 5.                                                                                                                                                                                                                | Harper's Hill; Wollongong, N. S. Wales. |

Genus *Inoceramus* (*J. Sowerby*, 1814 ms.), *Parkinson*, 1819. (Trans. Geol. Soc. v. p. 55<sup>2</sup>.)  
*Mytilacea-Aviculidae*.

*I. ? Mitchellii*, *M'Coy*. | Vide *Aphanaia*. |

Genus *Megadesmus*, *J. de C. Sowerby*, 1838 (non *Bowdich*). Vide *Pachydomus*.

|                                                  |                                     |
|--------------------------------------------------|-------------------------------------|
| <i>M. antiquatus</i> , <i>J. de C. Sowerby</i> . | Vide <i>Pachydomus antiquatus</i> . |
| <i>M. cuneatus</i> , <i>J. de C. Sowerby</i> .   | Vide <i>Pachydomus cuneatus</i> .   |
| <i>M. globosus</i> , <i>J. de C. Sowerby</i> .   | Vide <i>Pachydomus globosus</i> .   |
| <i>M. lævis</i> , <i>J. de C. Sowerby</i> .      | Vide <i>Pachydomus lævis</i> .      |

<sup>1</sup> *Dana* remarks that perhaps this is only the *E. cordata*, *Morris* (*Am. Jour. Sc.* 1848, v. p. 434).

<sup>2</sup> The genus *Inoceramus* was proposed and described in a paper read before the Linnean Society on Nov. 1st, 1814, by Mr *J. Sowerby*, "On a fossil shell of a fibrous structure, &c." The description appeared in pt. 2, vol. XIII. *Linn. Trans.*, which Mr *R. Kippist*, Librarian to the Society, informs me was published in Dec. 1822. In the mean time *Parkinson* published a description of the genus (*Trans. Geol. Soc.* v. p. 55), the latter work bearing date 1819. This must therefore be accepted as the real date of the publication of *Inoceramus*, and not 1814, as is usually given in catalogues and works.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                         | Strat. Subdivision. | References.                                                                                                                                                                                     | Localities, &c.                       |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Genus <i>Modiola</i> <sup>1</sup> , Lamarck, 1799. (Prodrome, p. 87; Système, 1801, p. 113.)<br><i>Mytilacea-Mytilidæ.</i> |                     |                                                                                                                                                                                                 |                                       |
| <i>M. crassissima</i> ,<br><i>M'Coy.</i>                                                                                   | U.Pal.(Carb.)       | *Annals Nat. Hist. 1847, xx.<br>p. 300, t. 15, figs. 2 and 3;<br>*Proc. R. Soc. V. D. Land,<br>1851, i. p. 324, t. 15, figs. 2 and<br>3; Plews, Mining Inst. Jour.<br>1858, vi. pt. 3, t. 4.    | Harper's Hill, N.<br>S. Wales.        |
| Genus <i>Modiolopsis</i> , Hall, 1847. (Pal. New York, i. p. 157.)— <i>Mytilacea-Prasinidæ.</i>                            |                     |                                                                                                                                                                                                 |                                       |
| <i>M. acutifrons</i> , Dana.                                                                                               | U.Pal.(Carb.)       | *American Jour. Sc. 1847, iv.<br>p. 159; <i>Cypricardia</i> , *Geol.<br>U. S.—Expl. Expd. p. 702,<br>Atlas, t. 8, f. 4; <i>id.</i> Clarke,<br>S. Goldfields, 1860, p. 288.                      | District of Illawara,<br>N. S. Wales. |
| <i>M. arcodes</i> , Dana.                                                                                                  | U.Pal.(Carb.)       | *American Jour. Sc. 1847, iv.<br>p. 159; <i>Cypricardia</i> , *Geol.<br>U. S. Expl. Expd. p. 702, Atlas,<br>t. 8, figs. 5—7.                                                                    | Harper's Hill, N.<br>S. Wales.        |
| <i>M. imbricata</i> , Dana.                                                                                                | U.Pal.(Carb.)       | *American Jour. Sc. 1847, iv.<br>p. 159; <i>Cypricardia</i> , *Geol.<br>U. S. Expl. Expd. p. 703, Atlas,<br>t. 8, f. 8.                                                                         | Harper's Hill, N.<br>S. Wales.        |
| <i>M. prærupta</i> , Dana.                                                                                                 | U.Pal.(Carb.)       | *American Jour. Sc. 1847, iv.<br>p. 159; <i>Cypricardia</i> , *Geol.<br>U. S. Expl. Expd. p. 703, Atlas,<br>t. 8, f. 8.                                                                         | District of Illawara,<br>N. S. Wales. |
| <i>M.?</i> <i>siliqua</i> , Dana.                                                                                          | U.Pal.(Carb.)       | <i>Modiolopsis</i> , *American Jour. Sc.<br>1847, iv. p. 159; <i>Cypricardia</i> ,<br>*Geol. U. S. Expl. Expd. p. 703,<br>Atlas, t. 9, f. 1; <i>id.</i> Clarke,<br>S. Goldfields, 1860, p. 288. | District of Illawara,<br>N. S. Wales. |
| <i>M.?</i> <i>simplex</i> , Dana.                                                                                          | U.Pal.(Carb.)       | <i>Modiolopsis</i> , *American Jour. Sc.<br>1847, iv. p. 159; <i>Cypricardia</i> ,<br>*Geol. U. S. Expl. Expd. p. 703,<br>Atlas, t. 9, f. 2; <i>id.</i> Clarke,<br>S. Goldfields, 1860, p. 288. |                                       |
| <i>M.?</i> <i>veneris</i> , Dana.                                                                                          | U.Pal.(Carb.)       | <i>Modiolopsis</i> , *Geol. U. S. Expl.<br>Expd. p. 704, t. 9, f. 3.                                                                                                                            | Glendon, N. S.<br>Wales.              |

Genus *Mæonia*, Dana, 1847. (Amer. Jour. Science, iv. p. 158.) Vide *Notomya*, M'Coy<sup>2</sup>.

|                             |                                 |
|-----------------------------|---------------------------------|
| <i>M. axinia</i> , Dana.    | Vide <i>Notomya axinia</i> .    |
| <i>M. elliptica</i> , Dana. | Vide <i>Notomya elliptica</i> . |
| <i>M. elongata</i> , Dana.  | Vide <i>Notomya elongata</i> .  |

<sup>1</sup> *VolSELLA*, Scopoli, 1777, has precedence of *Modiola*, Lamk. 1799; written *Modiolus* by Lamarck in 1799, and changed to *Modiola* in 1801.

<sup>2</sup> The late Dr Stoliczka has remarked that "great confusion exists amongst the fossils which have been described from the N. S. Wales Palæozoic rocks, and some of the species described as

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                  | Strat. Subdivision. | References.                                   | Localities, &c. |
|-------------------------------------|---------------------|-----------------------------------------------|-----------------|
| <i>M. fragilis</i> , Dana.          |                     | Vide <i>Notomya fragilis</i> .                |                 |
| <i>M. gigas</i> , Dana.             |                     | Vide <i>Pachydomus gigas</i> , M'Coy.         |                 |
| <i>M. gracilis</i> , Dana.          |                     | Vide <i>Notomya gracilis</i> , Dana.          |                 |
| <i>M. grandis</i> , Dana.           |                     | Vide <i>Notomya grandis</i> , Dana.           |                 |
| <i>M. Koninckii</i> , W. B. Clarke. |                     | Vide <i>Notomya Koninckii</i> , W. B. Clarke. |                 |
| <i>M. myiformis</i> , Dana.         |                     | Vide <i>Clarkia myiformis</i> .               |                 |
| <i>M. recta</i> , Dana.             |                     | Vide <i>Notomya recta</i> .                   |                 |
| <i>M. valida</i> , Dana.            |                     | Vide <i>Notomya valida</i> .                  |                 |

Genus *Mytilus*<sup>1</sup>, *Linnaeus*, 1758 (*Systema*, ed. 10, i. p. 704; *Lamarek*, *Prodrome*, 1799, p. 83; &c.) = *Perna*, *Adanson*, 1757.—*Mytilucca*-*Mytilidæ*.

|                                  |                 |                                                                    |                        |
|----------------------------------|-----------------|--------------------------------------------------------------------|------------------------|
| <i>M. Bigsbyi</i> , de Kon.      | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 288, t. 21, f. 1. | Branxton, N. S. Wales. |
| <i>M. crassiventer</i> , de Kon. | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 288, t. 21, f. 2. | Branxton, N. S. Wales. |

Genus *Notomya*, M'Coy, 1847 (*Annals Nat. Hist.* xx. p. 303; *Stoliczka*, *Pal. Indica*, III. p. 83) = *Myonia* et *Mæonia*, Dana, 1847 (non *Myonia*, *Adams*, 1860); *Cleobis*, Dana, 1847; *Pyramus*, Dana, 1847.—*Myacea*-*Sazicavidæ*?

|                            |                 |                                                                                                                                                                                                                                                                                         |                          |
|----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>N. axinia</i> , Dana.   | U. Pal. (Carb.) | <i>Cypricardia</i> ? <i>sinuosa</i> , Dana, * <i>Am. Jour. Science</i> , 1847, iv. p. 157; <i>M. axinea</i> , * <i>Geol. U. S. Explor. Exped.</i> p. 696, <i>Atlas</i> , t. 5, f. 5; <i>C. sinuosa</i> et <i>M. axinia</i> , <i>Clarke</i> , <i>S. Goldfields</i> , 1860, pp. 287, 288. | Illawara, N. S. Wales.   |
| <i>N. clavata</i> , M'Coy. | U. Pal. (Carb.) | * <i>Annals Nat. Hist.</i> 1847, xx. p. 304, t. 15, f. 4; * <i>Proc. R. Soc. V. D. Land</i> , 1851, i. p. 327, t. 15, f. 4; <i>Plews</i> , <i>Mining Inst. Jour.</i> 1858, vi. pt. 3, t. 4; <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 287.                                        | Wollongong, N. S. Wales. |

*Notomya* or *Mæonia* may just as well belong to *Pachydomus*, and vice versa" (*Pal. Indica*, III. p. 83). *Mæonia* (*Myonia*), *Cleobis*, and *Pyramus* were proposed as new genera by Prof. Dana in 1847, but in the next year he suggested that the various species contained in the three so-called genera should be brought together under the one name *Mæonia*, "as the gradations are such that it is difficult to draw lines of distinction" (*Amer. Jour. Sc.* 1848, v. p. 434). Again he says, "the divisions may, perhaps, form sub-genera" (*Geol. U. S. Explor. Exped.* p. 694). The section *Pyramus* or *Pyramia* is stated to correspond with *Notomya*, M'Coy, and is slightly antecedent to it in date. As, however, I agree with Dr *Stoliczka* in considering M'Coy's description "far more intelligible than that given by Dana of his genus," and as in addition M'Coy no doubt correctly indicated the affinities of his genus, I prefer to adopt the latter for the whole of the species which have been referred to these genera. In dealing with this portion of my subject I have experienced the utmost difficulty, and can only offer the present synonymy as a temporary solution, until some palæontologist is afforded an opportunity of working the subject out in detail. To his previous remarks on this subject Dr *Stoliczka* adds, "neither in the text nor *Atlas* of his later work does Dana mention which of the species belong to each of the three sub-genera: and from the descriptions and figures the reader will find it very difficult to arrive at anything like accuracy of determination."

<sup>1</sup> The name *Mytilus* should give place to that of *Perna*, *Adanson*, proposed in the *Voy. au Sénégal* (p. 217). Although *Adanson* was not a binomial writer, *Perna*, like many other of his genera, was perfectly well characterised, and ought to be adopted.



## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                  | Strat. Subdivision. | References.                                                                                                                                                                                                                                                         | Localities, &c.                                |
|-------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <i>N. elliptica</i> , Dana.         | U.Pal.(Carb.)       | <i>Pyramus</i> , *Amer. Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 697, Atlas, t. 6, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.                                                                                          | Wollongong Point, N. S. Wales.                 |
| <i>N. elongata</i> , Dana.          | U.Pal.(Carb.)       | <i>Myonia</i> , *Amer. Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 695, Atlas, t. 5, f. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 280, t. 20, f. 6. | Black Head, Illawara; Wollongong, N. S. Wales. |
| <i>N. fragilis</i> , Dana.          | U.Pal.(Carb.)       | *Geol. U. S. Expl. Exped. p. 696, Atlas, t. 6, f. 2 and 3.                                                                                                                                                                                                          | Glendon, N. S. Wales.                          |
| <i>N. gracilis</i> , Dana.          | U.Pal.(Carb.)       | <i>Cleobis</i> , *Amer. Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 698, Atlas, t. 7, f. 1; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 281, t. 19, f. 1.    | Wollongong; Murree, N. S. Wales.               |
| <i>N. grandis</i> , Dana.           | U.Pal.(Carb.)       | <i>Cleobis</i> , *American Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> , *Geol. U. S. Expl. Exped. p. 697, Atlas, t. 6, f. 8; <i>id.</i> Clarke, S. Goldfields, p. 287.                                                                                               | Wollongong Point, N. S. Wales.                 |
| <i>N. Koninckii</i> , W. B. Clarke. | U.Pal.(Carb.)       | <i>Mæonia</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 279, t. 19, f. 6.                                                                                                                                                                      | Cololamine, N. S. Wales.                       |
| <i>N. recta</i> , Dana.             | U.Pal.(Carb.)       | <i>Cleobis</i> , *American Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> ? *Geol. U. S. Expl. Exped. p. 698, Atlas, t. 7, f. 2; <i>Mæonia</i> , Clarke, S. Goldfields, 1860, p. 287.                                                                                    | Wollongong Point, N. S. Wales.                 |
| <i>N. securiformis</i> , M'Coy.     | U.Pal.(Carb.)       | *Annals Nat. Hist. 1847, xx. p. 304, t. 15, fig. 5; *Proc. R. Soc. V.D. Land, 1851, i. p. 327, t. 15, f. 5.                                                                                                                                                         | Wollongong, N. S. Wales.                       |
| <i>N. valida</i> , Dana.            | U.Pal.(Carb.)       | <i>Myonia</i> , *American Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Expl. Exped. p. 695, t. 5, f. 4.                                                                                                                                                 | Black Head, Illawara, N. S. Wales.             |

Genus *Nucula*, Lamarck, 1799. (Prodrome, p. 87; Système, 1801, p. 115.)  
*Arcæa-Nuculidæ.*

|                                |               |                                                                                                                                 |                                |
|--------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>N. abrupta</i> , Dana.      | U.Pal.(Carb.) | *American Jour. Sc. 1847, iv. p. 157; *Geol. U. S. Expl. Exped. p. 698, Atlas, t. 7, f. 3; Clarke, S. Goldfields, 1860, p. 287. | Wollongong Point, N. S. Wales. |
| <i>N. concinna</i> , Dana.     | U.Pal.(Carb.) | *Geol. U. S. Expl. Exped. p. 699, Atlas, t. 7, f. 4.                                                                            | Harper's Hill, N. S. Wales.    |
| <i>N. Glendonensis</i> , Dana. | U.Pal.(Carb.) | *Geol. U. S. Expl. Exped. p. 699, Atlas, t. 7, f. 5.                                                                            | Glendon, N. S. Wales.          |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                          | Strat. Subdivision. | References.                                                                            | Localities, &c.                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------|-----------------------------------|
| Genus <b>Nuculana</b> , <i>Link.</i> 1807 (Beischreibung Natur. Sammlung Rostok, III. p. 155 !; Meek, Report Invert. Cret. Foss. Up. Missouri, 1876, p. 103) = <i>Leda</i> , Schumacher, 1817.— <i>Arcacea-Nuculanidæ</i> . |                     |                                                                                        |                                   |
| <i>N. Darwinii</i> , <i>de Kon.</i>                                                                                                                                                                                         | U.Pal.(Carb.)       | <i>Tellinomya</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 285, t. 16, f. 9. | Stony Creek, <i>N. S. Wales</i> . |

Genus **Orthonota**, *Conrad*, 1841 (see p. 23).—*Lucinacea-Solemyidæ*.

|                                        |               |                                                                                                                                                                                                                                   |                                                                 |
|----------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <i>O.? compressa</i> , <i>Morris</i> . | U.Pal.(Carb.) | <i>Orthonota?</i> Strzelecki's *Phys. Descr. N. S. Wales, p. 274, t. 13, f. 4; <i>Orthonota</i> , M'Coy, Annals Nat. Hist. 1847, xx. p. 300; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 96. | Harper's Hill, <i>N. S. Wales</i> .<br>Spring Hill, <i>Tas.</i> |
| <i>O.? costata</i> , <i>Morris</i> .   |               | Vide <i>Pleurophorus Morrisii</i> , <i>de Koninck</i> .                                                                                                                                                                           |                                                                 |

Genus **Pachydomus**, *Morris*, 1845 (Strzelecki's Phys. Descr. N. S. Wales, p. 271) = *Megadesmus*, *J. de C. Sowerby* (non Bowdich).—*Lucinacea-Astartidæ*.

|                                                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |
|--------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <i>P. antiquatus</i> , <i>J. de C. Sowerby</i> . | U.Pal.(Carb.) | <i>Megadesmus</i> , Mitchell's Three Expds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 2; <i>Pachydomus</i> , <i>Morris</i> , *Strzelecki's Phys. Des. N. S. Wales, p. 272; <i>id.</i> Dana, *Geol. U. S. Expl. Expd. p. 693, Atlas, t. 5, f. 2; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89.                                                                                                                                                                                                                                                                                    | Wollongong; Harper's Hill, <i>N. S. Wales</i> .                        |
| <i>P. carinatus</i> , <i>Morris</i> .            | U.Pal.(Carb.) | Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 273, t. 11, figs. 3 and 4; <i>Cypricardia rugulosa</i> , Dana, *American Jour. Sc. 1847, IV. p. 157; <i>P. carinatus</i> , M'Coy, Annals Nat. Hist. 1847, xx. p. 301; <i>Maonia?</i> <i>carinata</i> , Dana, *Geol. U. S. Expl. Expd. p. 696; <i>Pachydomus</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 89; <i>Cyp. rugulosa</i> , <i>Pachy. carinatus</i> , et <i>M. carinata</i> , Clarke, S. Goldfields, 1860, pp. 287, 288; <i>Pleurophorus?</i> , <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 283, t. 19, f. 8. | Illawara; Wollongong, <i>N. S. Wales</i> .<br>Port Arthur, <i>Tas.</i> |
| <i>P. cuneatus</i> , <i>J. de C. Sowerby</i> .   | U.Pal.(Carb.) | <i>Megadesmus</i> , Mitchell's Three Expds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 3; <i>Pachydomus</i> , <i>Morris</i> , *Strzelecki's Phys. Des. N. S. Wales, 1845, p. 272; <i>id.</i>                                                                                                                                                                                                                                                                                                                                                                                                                             | Illawara; Wollongong; Harper's Hill, <i>N. S. Wales</i> .              |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                    | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                                                                        |
|---------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <i>P. Danai, de Kon.</i>              | U.Pal.(Carb.)       | Dana, *Geol. U. S. Expl. Expd. p. 693, Atlas, t. 5, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89.                                                                                                                                                                                                                                                                                                                           | Wollongong, N. S. Wales.                                                               |
| <i>P. gigas, M'Coy.</i>               | U.Pal.(Carb.)       | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 278, t. 19, f. 5.                                                                                                                                                                                                                                                                                                                                                                                                       | Wollongong; Mt Vincent, N. S. Wales.                                                   |
| <i>P. globosus, J. de C. Sowerby.</i> | U.Pal.(Carb.)       | *Annals Nat. Hist. 1847, xx. p. 301, t. 16, f. 3; <i>Mæonia</i> , Dana, *Geol. U. S. Explor. Expd. p. 697; <i>Pachydomus</i> , M'Coy, *Proc. R. Soc. V.D. Land, 1851, I. p. 325, t. 16, f. 3; <i>id.</i> Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 274.                                                                                   | Wollongong; Mt Vincent, N. S. Wales.                                                   |
| <i>P. lævis, J. de C. Sowerby.</i>    | U.Pal.(Carb.)       | Mitchell's *Three Expeds. Int. E. Austr. 1838, p. 15, t. 3, f. 1 and 2; <i>Pachydomus</i> , Morris, in *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 272, t. 10, f. 2 and 3; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 301; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. pp. 89 and 96; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 272, t. 18, f. 5. | Illawara; Harper's Hill; Lochinoar, N. S. Wales. Mounts Dromedary and Wellington, Tas. |
| <i>P. ovalis, M'Coy.</i>              | U.Pal.(Carb.)       | <i>Megadesmus</i> , Mitchell's Three Expeds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 1; <i>Pachydomus</i> , Morris, *Strzelecki's Phys. Des. N. S. Wales, 1845, p. 272; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 273, t. 20, f. 1.                                                                   | Illawara, N. S. Wales.                                                                 |
|                                       | U.Pal.(Carb.)       | *Annals Nat. Hist. 1847, xx. p. 302, t. 14, f. 4; <i>Astartila</i> , Dana, *American Jour. Sc. 1848, v. p. 434; *Proc. R. Soc. V.D. Land, 1851, I. p. 325, t. 14, f. 4; <i>id.</i> Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 4; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 275, t. 19, f. 3 (?= <i>Astartila intrepida</i> , Dana).                                                                           | Wollongong, N. S. Wales.                                                               |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                  | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                      | Localities, &c.          |
|-------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>P. pusillus</i> , <i>M'Coy</i> . | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 302, t. 16, f. 1 and 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 325, t. 16, f. 1 and 2; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 276, t. 19, f. 2; ? = <i>Astartila cytherea</i> , Dana. | Wollongong, N. S. Wales. |
| <i>P. sacculus</i> .                |                     | ? Vide <i>Eurydesma</i> .                                                                                                                                                                                                                                                        |                          |

Genus *Palæarca*, *J. Hall*, 1859 (see p. 23).

|                                            |                 |                                              |  |
|--------------------------------------------|-----------------|----------------------------------------------|--|
| <i>P. costellata</i> , <i>de Kon.</i>      | U. Pal. (Carb.) | Vide <i>Arca costellata</i> , <i>M'Coy</i> . |  |
| <i>P. interrupta</i> , <i>de Koninck</i> . |                 | „ „ <i>de Kon.</i>                           |  |
| <i>P. subarguta</i> , <i>de Koninck</i> .  |                 |                                              |  |

Genus *Paracyclas*, *J. Hall*, 1843. (Geol. Report, 4th District N. York, p. 171; *de Koninck*, Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 108.)  
? *Lucinacea-Lucinidæ*.

|                                         |                |                                                                                                                                                         |                    |
|-----------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <i>P. elliptica</i> , <i>Phillips</i> . | M. Pal. (Dev.) | <i>Pullastra</i> , *Pal. Foss. Devon. 1840, p. 35, t. 17, f. 54; <i>Paracyclas</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 109. | Yass, N. S. Wales. |
|-----------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|

Genus *Pecten*, *O. F. Müller*, 1776. (Zool. Danicæ Prod. p. 248; *Lamarck* (emend.), Prodrome, 1799, p. 88.)—*Ostracea-Pectinidæ*.

|                                           |  |                                           |  |
|-------------------------------------------|--|-------------------------------------------|--|
| <i>P. Fittoni</i> , <i>Morris</i> .       |  | Vide <i>Aviculopecten Fittoni</i> .       |  |
| <i>P. Illawarensis</i> , <i>Morris</i> .  |  | Vide <i>Aviculopecten Illawarensis</i> .  |  |
| <i>P. limæformis</i> , <i>Morris</i> .    |  | Vide <i>Aviculopecten limæformis</i> .    |  |
| <i>P. comptus</i> , <i>Dana</i> .         |  | Vide <i>Aviculopecten comptus</i> .       |  |
| <i>P. leniusculus</i> , <i>Dana</i> .     |  | Vide <i>Aviculopecten leniusculus</i> .   |  |
| <i>P. lineatus</i> , <i>Plews</i> .       |  | Vide <i>Aviculopecten lineatus</i> .      |  |
| <i>P. mitis</i> , <i>Dana</i> .           |  | Vide <i>Aviculopecten mitis</i> .         |  |
| <i>P. ptychotis</i> , <i>M'Coy</i> .      |  | Vide <i>Aviculopecten ptychotis</i> .     |  |
| <i>P. squamuliferus</i> , <i>Morris</i> . |  | Vide <i>Aviculopecten squamuliferus</i> . |  |
| <i>P. tenuicollis</i> , <i>Dana</i> .     |  | Vide <i>Aviculopecten tenuicollis</i> .   |  |

Genus *Pholadomya*, *G. B. Sowerby*, 1823. (Genera of Shells, No. 19, *J. de C. Sow.* Min. Con. 1827, vi. p. 85 = *Procardia*, *Meek*, 1871.)—*Myacea-Anatinidæ*.

|                                        |  |                                              |  |
|----------------------------------------|--|----------------------------------------------|--|
| <i>P. audax</i> , <i>Dana</i> .        |  | Vide <i>Edmondia</i> ? <i>audax</i> .        |  |
| <i>P. curvata</i> , <i>Dana</i> .      |  | Vide <i>Allorisma curvata</i> .              |  |
| <i>P. Glendonensis</i> , <i>Dana</i> . |  | Vide <i>Edmondia</i> ? <i>Glendonensis</i> . |  |
| <i>P. undata</i> , <i>Dana</i> .       |  | Vide <i>Edmondia</i> ? <i>undata</i> .       |  |

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                                                                                                       | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Localities, &c.                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Genus <b>Pleurophorus</b> , <i>King</i> , 1844. (Annals Nat. Hist. xrv. p. 313; Catalogue Perm. Foss. 1848, p. 11; Mon. Perm. Foss. 1850, p. 180; Meek and Hayden, Pal. Up. Missouri, 1865, p. 34; Stoliczka, Pal. Indica, III. p. 280.)<br><i>Lucinacea-Astartidæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |
| <i>P. biplex</i> , <i>de Kon.</i>                                                                                                                                                                                                                                        | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 282, t. 19, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wollongong, N. S. Wales.           |
| <i>P. carinatus</i> , <i>de Koninck</i> .                                                                                                                                                                                                                                |                     | Vide <i>Pachydomus carinatus</i> , Morris.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |
| <i>P. Morrisii</i> , <i>de Kon.</i>                                                                                                                                                                                                                                      | U. Pal. (Carb.)     | <i>Orthonota?</i> <i>costata</i> , Morris, in Strzelecki's *Phys. Descr. N.S. Wales, 1845, p. 273, t. 11, f. 1 and 2 (non <i>Pleurophorus costatus</i> , Brown); <i>Orthonota costata</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 300; <i>Cardinia costata</i> , Dana, *Geol. U.S. Explor. Expt. p. 692, Atlas, t. 4, f. 8; <i>O. costata</i> , Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 89; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Pleurophorus Morrisii</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 281, t. 20, f. 5. | Illawara; Wollongong, N. S. Wales. |

Genus **Pleurorhynchus**, *Phillips*, 1836. (Geol. Yorkshire, II. p. 210.) Vide *Conocardium*, Bronn.

*P. Australis*, *M'Coy*. | Vide *C. Australis*. |

Genus **Pterinea**, *Goldfuss*, 1832 (see p. 24).—*Mytilacea-Aviculidæ*.

|                                        |                     |                                                                                                                                                                                                                                                                                                                                                                |                                                                 |
|----------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <i>P. laminosa</i> , <i>de Kon.</i>    | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 116, t. 3, f. 12.                                                                                                                                                                                                                                                                                                    | Yass, N. S. Wales.                                              |
| <i>P. macroptera</i> , <i>Morris</i> . | U. Pal. (Carb.)     | Strzelecki's *Phys. Descrip. N.S. Wales, 1845, p. 276, t. 13, f. 2 and 3; Dana, *Geol. U.S. Explor. Exped. p. 704; M'Coy, Annals Nat. Hist. 1847, xx. p. 299; Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 96; Clarke, S. Goldfields, 1860, p. 287; <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 305, t. 16, f. 12. | Illawara; Maitland, N. S. Wales. Spring Hill; Port Arthur, Tas. |

Genus **Pteronites**, *M'Coy*, 1844. (Synop. Carb. Foss. Ireland, p. 81; Brit. Pal. Foss. 1852, p. 391; Stoliczka, Pal. Indica, III. p. 388).—*Mytilacea-Aviculidæ*.

|                                  |                 |                                                                                                                                                  |                               |
|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <i>P. latus</i> , <i>M'Coy</i> . | U. Pal. (Carb.) | *Synop. Carb. Foss. Ireland, 1844, p. 81, t. 13, f. 7; <i>Avicula</i> , d'Orbigny, Prodrome de Pal. 1849, I. p. 135; <i>Pteronites</i> , Morris, | William's River, N. S. Wales. |
|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                              | Localities, &c. |
|--------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                    |                     | Cat. Brit. Foss. 2nd ed. 1854, p. 181; <i>Pterinea</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 306, t. 16, f. 11. |                 |

Genus *Pullastra*, G. B. Sowerby, 1827 (Genera of Shells, No. xxviii., Zool. Jour. 1827, iii. p. 134) = *Tapes*, Megerle.

|                               |  |                        |
|-------------------------------|--|------------------------|
| P.? striatocostata,<br>M'Coy. |  | Vide <i>Edmondia</i> . |
|-------------------------------|--|------------------------|

Genus *Pyramus*, Dana, 1847 (Amer. Jour. Science, iv. p. 156) = *Pyramia*, Dana. Vide *Notomya*, M'Coy.

|                      |  |                                 |
|----------------------|--|---------------------------------|
| P. ellipticus, Dana. |  | Vide <i>Notomya elliptica</i> . |
| P. myiformis, Dana.  |  | Vide <i>Clarkia myiformis</i> . |

Genus *Sanguinolites*, M'Coy, 1844. (Synop. Carb. Foss. Ireland, p. 47; Brit. Pal. Foss. 1852, p. 276; de Koninck, Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 73.)—*Myacea-Anatinidæ*?

|                            |                 |                                                                                                                                                                                                                                                                          |                                                       |
|----------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| S. curvatus, de Kon.       |                 | Vide <i>Allorisma?</i> <i>curvata</i> , Morris.                                                                                                                                                                                                                          |                                                       |
| S. Etheridgei, de Koninck. | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 262, t. 16, f. 2, t. 17, f. 2.                                                                                                                                                                                          | Mount Vincent, N. S. Wales.                           |
| S. M'Coyi, de Kon.         | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 263, t. 17, f. 3.                                                                                                                                                                                                       | Wollongong, N. S. Wales.                              |
| S. Mitchellii, de Kon.     | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 261, t. 16, f. 3.                                                                                                                                                                                                       | Wollongong, N. S. Wales.                              |
| S. Tenisoni, de Kon.       | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 265, t. 17, f. 5.                                                                                                                                                                                                       | Burragegood, N. S. Wales.                             |
| S. undatus, Dana.          | U. Pal. (Carb.) | <i>Pholadomya</i> , *Amer. Jour. Sc. 1847, iv. p. 153; <i>id.</i> *Geol. U. S. Explor. Exped. p. 687, t. 2, f. 11; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Sanguinolites</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 260, t. 17, f. 1. | Wollongong Point; Illawara; Burragegood, N. S. Wales. |

Genus *Scaldia*, de Ryckholt, 1852?. (Mélanges Pal. pt. 1, p. 67; de Koninck, Mon. Carb. Foss. Bleiberg en Carinthie, 1873, p. 72.)—*Myacea-Anatinidæ*?

|                              |                 |                                                                    |                             |
|------------------------------|-----------------|--------------------------------------------------------------------|-----------------------------|
| S.? depressa, de Kon.        | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 259, t. 15, f. 6. | Buchan, N. S. Wales.        |
| S.? lamellifera, de Koninck. | U. Pal. (Carb.) | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 260, t. 15, f. 7. | Harper's Hill, N. S. Wales. |

(Pelecypoda<sup>1</sup>.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                 | Strat. Subdivision. | References.                                                                                                                                                                  | Localities, &c.                |
|--------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Genus <b>Solecurtus</b> , <i>de Blainville</i> , 1824. (Dict. Sc. Nat. xxxii. p. 351.)<br><i>Myacea-Solenidæ</i> . |                     |                                                                                                                                                                              |                                |
| <i>S. ellipticus</i> , <i>Dana</i> .                                                                               | U. Pal. (Carb.)     | <i>Solen</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Solecurtus</i> ? *Geol. U. S. Expl. Expd. p. 686, Atlas, t. 2, f. 9; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287. | Wollongong Point, N. S. Wales. |
| <i>S. planulatus</i> , <i>Dana</i> .                                                                               | U. Pal. (Carb.)     | <i>Solen</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Solecurtus</i> ( <i>Psammobia</i> ?), *Geol. U. S. Expl. Expd. p. 687, Atlas, t. 2, f. 10.                           | Harper's Hill, N. S. Wales.    |

Genus **Solen**, *Linnaeus*, 1758. (Systema, ed. 10, p. 672; Lamarck, 1799, Prodrôme, p. 83.)  
*Myacea-Solenidæ*.

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <i>S. ellipticus</i> , <i>Dana</i> . | Vide <i>Solecurtus ellipticus</i> , <i>Dana</i> . |
| <i>S. planulatus</i> , <i>Dana</i> . | Vide <i>Solecurtus planulatus</i> , <i>Dana</i> . |

Genus **Tellinomya**, 1847 (see p. 24).—*Arcacea-Nuculidæ*.

|                                     |                      |                                                                   |                    |
|-------------------------------------|----------------------|-------------------------------------------------------------------|--------------------|
| <i>T. Clarkei</i> , <i>de Kon.</i>  | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 111, t. 3, f. 8. | Yass, N. S. Wales. |
| <i>T. Darwinii</i> , <i>de Kon.</i> |                      | Vide <i>Nuculana</i> .                                            |                    |

Genus **Venus**, *Linnaeus*, 1758. (Systema, ed. 10, p. 684; Lamarck, 1799, Prodrôme, p. 84.)  
*Veneracea-Veneridæ*.

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|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>V.?</i> <i>gregaria</i> , <i>McCoy</i> . | U. Pal. (Carb.) | *Annals Nat. Hist. 1847, xx. p. 305, t. 16, f. 5; *Proc. R. Soc. V. D. Land, 1851, i. p. 328, t. 16, f. 5; Clarke, S. Goldfields, 1860, p. 287. | Wollongong, N. S. Wales. |
|---------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|

## Class—Gasteropoda.

Genus **Bellerophon**, *de Montfort*, 1808 (see p. 24).—*Nucleobr.-Atlantidæ*?

|                                            |                      |                                                                                                                                                                                                                                |                        |
|--------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <i>B. contractus</i> , <i>Jukes</i> (ms.). | U. Pal. (Carb.)      | *Quart. Jour. Geol. Soc. 1847, iii. p. 242; Phys. Structure of Australia, 1860, p. 20.                                                                                                                                         | Illawara, N. S. Wales. |
| <i>B. convolutus</i> , <i>de Koninck</i> . | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 118, Atlas, t. 4, f. 4.                                                                                                                                                              | Yass, N. S. Wales.     |
| <i>B. decussatus</i> , <i>Fleming</i> .    | U. Pal. (Carb.)      | *Brit. Animals, 1828, p. 328; Phillips, *Geol. Yorksh. 1836, ii. p. 231, t. 17, f. 13; <i>B. reticulatus</i> , <i>McCoy</i> , *Synop. Carb. Foss. Ireland, 1844, p. 25, t. 2, f. 5; <i>B. decussatus</i> , <i>de Koninck</i> , | N. S. Wales.           |

<sup>1</sup> Prof. McCoy has indicated two new species of *Grammysia* and *Orthonota* from Victorian Devonian rocks. (Smyth's *Progress Rept.* 1874, p. 34.)

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                           | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                   |
|----------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>B. interstitialis</i> ,<br><i>M'Coy</i> . | U. Pal. (Carb.)     | * <i>Descrip. Anim. Foss. Terr. Carb. Belg.</i> 1844, p. 339, t. 29, f. 2 and 3, t. 30, f. 3; <i>id.</i> <i>M'Coy</i> , * <i>Brit. Pal. Foss.</i> p. 552; <i>id.</i> Brown, * <i>Foss. Conch.</i> 1849, p. 38, t. 26, f. 21; <i>id.</i> de Kon. Mon. Foss. Carb. Carinthie, 1873, p. 97, t. 4, f. 1; <i>id.</i> <i>ibid.</i> Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 366; <i>id.</i> Etheridge, jun. * <i>Geol. Mag.</i> 1876, Dec. 2, vol. III. p. 154, t. 6, f. 8 a and b. | Dunvegan, N. S. Wales.            |
| <i>B. micromphalus</i> ,<br><i>Morris</i> .  |                     | <i>Vide Goniatites</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |
| <i>B. strictus</i> , <i>Dana</i> .           |                     | <i>Vide Goniatites</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |
| <i>B. subglobatus</i> ,<br><i>M'Coy</i> .    | M. Pal. (Dev.)      | <i>B. globatus</i> , J. de C. Sow. * <i>Geol. Trans.</i> 2nd ser. v. 1840, t. 53, f. 30; <i>id.</i> Phillips, * <i>Pal. Foss. Devon.</i> 1841, p. 108, t. 40, f. 202; <i>B. subglobatus</i> , <i>M'Coy</i> , * <i>Brit. Pal. Foss.</i> p. 400; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 288; ? <i>B. globatus</i> , Stutchbury, Parl. Blue Book, Dec. 1854, p. 19.                                                                                                       | Pallal, nr. Bingera, N. S. Wales. |
| <i>B. undulatus</i> , <i>Dana</i> .          |                     | <i>Vide Goniatites</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |

Genus **Capulus**, de Montfort, 1810 (*Conch. Syst.* II. p. 54) = *Pileopsis*, Lamarck, 1812; *Platyceras*, Conrad, 1840; *Acroculia*, Phillips, 1841.—*Prosobr.-Capulidæ*.

|                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
|----------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <i>C. altus</i> , <i>Dana</i> .        | U. Pal. (Carb.) | <i>Pileopsis alta</i> , * <i>Geol. U.S. Explor. Exped.</i> p. 706, Atlas, t. 9, f. 14; <i>Platyceras altum</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 318, t. 23, f. 5.                                                                                                                                                                                                                     | Harper's Hill, N. S. Wales.           |
| <i>C. angustus</i> , <i>Phillips</i> . | U. Pal. (Carb.) | <i>Pileopsis</i> , * <i>Geol. York.</i> 1836, II. p. 224, t. 14, f. 20; <i>Acroculia</i> , <i>M'Coy</i> , * <i>Synopsis Carb. Foss. Ireland</i> , 1844, p. 44; <i>Pileopsis</i> , Brown, * <i>Foss. Conchology</i> , 1849, p. 103, t. 47, f. 54; <i>Capulus</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 239; <i>Platyceras</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 316, t. 23, f. 7. | Burragegood, N. S. Wales.             |
| <i>C. tenellus</i> , <i>Dana</i> .     | U. Pal. (Carb.) | <i>Patella</i> , * <i>Amer. Jour. Sc.</i> 1847, IV. p. 151; <i>Pileopsis</i> , * <i>Geol. U.S. Explor. Exped.</i> p. 706, Atlas, t. 9, f. 13; <i>Patella</i> , Clarke, S. Goldfields, 1860, p. 288; <i>Platy-</i>                                                                                                                                                                                                            | Harper's Hill; Colocolo, N. S. Wales. |



## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                                                       | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Localities, &c.               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <i>C. trilobus</i> , <i>Phillips</i> .                                                                                                                                                   | U.Pal.(Carb.)       | <i>ceras</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 319, t. 23, f. 6.<br><i>Pileopsis</i> ? *Geol. York. 1836, II. p. 224, t. 14, f. 12 and 13; <i>Capulus vetustus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1842, p. 332 (non Sow.); <i>Acroculia triloba</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 45; <i>Pileopsis</i> , Brown, *Foss. Conchology, 1849, p. 103, t. 47, f. 50 and 55; <i>Capulus trilobatus</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 239; <i>Platycceras trilobatum</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 317. | Burrageood, N. S. Wales.      |
| Genus <b>Dentalium</b> , <i>Linnaeus</i> , 1758 <sup>1</sup> . (Systema, ed. 10, p. 785; Lamarck, Prodrôme, 1799, p. 78; Adams, Genera, 1854, I. p. 456.)— <i>Prosobr.-Dentaliidae</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |
| <i>D. antiquum</i> , <i>Goldfuss</i> .                                                                                                                                                   | M. Pal. (L. Dev.)   | *Pet. Germaniæ, 1841, III. p. 2, t. 166, f. 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 117.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yass; Yarradong, N. S. Wales. |
| <i>D. cornu</i> , <i>de Kon.</i>                                                                                                                                                         | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 315, t. 23, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Karua, N. S. Wales.           |
| <i>D. tenuissimum</i> , <i>de Koninck</i> .                                                                                                                                              | M. Pal. (L. Dev.)   | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 117, Atlas, t. 4, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yass, N. S. Wales.            |
| Genus <b>Euomphalus</b> , <i>J. Sowerby</i> , 1814 (see p. 24).— <i>Prosobr.-Turbinidae</i> ?                                                                                            |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |
| <i>E. catillus</i> , <i>Martin</i> .                                                                                                                                                     | U. Pal. (Carb.)     | <i>Conch. (Helicites)</i> , *Pet. Derb. 1809, t. 7, f. 1 and 2; <i>Euomphalus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 427, t. 24, f. 10; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 35; <i>id.</i> Brown, *Foss. Conchology, 1849, p. 81, t. 42, f. 30 and 31; <i>Straparollus</i> ? M'Coy, *Brit. Pal. Foss. p. 538; <i>Euomphalus</i> , Morris, Cat. Brit. Foss. 1854, 2nd ed. p. 247; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 332, t. 23, f. 19.                                                                                         | Maitland, N. S. Wales.        |
| <i>E. Bigsbyi</i> , <i>de Kon.</i>                                                                                                                                                       | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 123, Atlas, t. 4, f. 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yass, N. S. Wales.            |

<sup>1</sup> The name *Dentalium* was used by Aldrovandus in 1642, and by Linnaeus as early as 1740 (*Meek*)! Stoliczka gives the original reference as Aldrovandus, 1642, *De Testaceis*, lib. 3, cap. 5, p. 282!

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                        | Strat. Subdivision. | References.                                                                                                                                                                                                                     | Localities, &c.                          |
|-------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <i>E. minimus</i> , <i>M'Coy</i> .        | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 305, t. 17, f. 4; *Proc. R. Soc. V. D. Land, 1851, i. p. 328, t. 17, f. 4; Clarke, S. Goldfields, 1860, p. 288; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 331, t. 23, f. 17. | Dunvegan; Burragood, <i>N.S. Wales</i> . |
| <i>E. nodulosus</i> , <i>de Koninck</i> . | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 122, Atlas, t. 1, f. 12.                                                                                                                                                       | Yarradong, <i>N. S. Wales</i> .          |

Genus *Litterina*, *Ferrussac*, 1820 (Tab. Syst. Anim. Moll. p. xxxiv.) = *Trochus*, *Adanson* (non *Linn*).—*Prosobr.-Littorinidæ*.

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| <i>L. filosa</i> , <i>J. de C. Sowerby</i> . | Vide <i>Macrocheilus</i> . |
|----------------------------------------------|----------------------------|

Genus *Loxonema*, *Phillips*, 1841<sup>1</sup>. (Pal. Foss. Devon. p. 98.)  
*Prosobr.-Eulimidæ*.

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| <i>L. acutissima</i> , <i>de Koninck</i> . | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 337, t. 23, f. 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Karua, <i>N. S. Wales</i> . |
| <i>L. anglica</i> , <i>d'Orbigny</i> .     | Mid. Pal. (L. Dev.) | Prod. de Pal. 1849, i. p. 62; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 124, Atlas, t. 4, f. 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yass, <i>N. S. Wales</i> .  |
| <i>L. antiqua</i> , <i>Münster</i> .       | Mid. Pal. (L. Dev.) | <i>Turritella</i> , *Beitrag z. Petrefac. 1840, p. 88, t. 15, f. 17; <i>Loxonema</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 125, t. 4, f. 10.                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yass, <i>N. S. Wales</i> .  |
| <i>L. constricta</i> , <i>Martini</i> .    | U. Pal. (Carb.)     | <i>Conch. (Turbinites?)</i> , *Pet. Derb. 1809, t. 38, f. 3; <i>Melanea</i> , <i>J. Sowerby</i> , *Min. Con. 1818, iii. p. 33, t. 218, f. 2; <i>Melania</i> , <i>Phillips</i> , *Geol. York. 1836, ii. p. 228, t. 16, f. 1; <i>Chemnitzia</i> , <i>de Koninck</i> , *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 465, t. 41, f. 5 a and b; <i>Loxonema</i> , <i>M'Coy</i> , *Synop. Carb. Foss. Ireland, 1844, p. 30; <i>id.</i> <i>de Koninck</i> , *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 105, t. 4, f. 5; <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 336, t. 23, f. 20. | Karua, <i>N. S. Wales</i> . |
| <i>L. deperdita</i> , <i>Goldfuss</i> .    | Mid. Pal. (L. Dev.) | <i>Melania</i> , *Pet. Germaniæ, iii. p. 109, t. 197, f. 12; <i>Loxonema</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 126.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yass, <i>N. S. Wales</i> .  |
| <i>L. difficilis</i> , <i>de Kon.</i>      | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 335, t. 23, f. 23.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Karua, <i>N. S. Wales</i> . |

<sup>1</sup> Some authors unite this genus with *Chemnitzia*, *d'Orb.*; see on this head, *F. B. Meek* (*Invert. Cret. Tert. Foss. Up. Missouri*, 1876, pp. 337—339), and *Stoliczka* (*Pal. Indica*, ii. p. 285).

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                             | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.             |
|------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>L. Hennahii</i> , <i>J. de C. Sowerby</i> . | Mid. Pal. (L. Dev.) | <i>Terebra</i> , *Trans. Geol. Soc. 1840, v. t. 57, f. 22; <i>Loroxenema</i> , Phillips, *Pal. Foss. Devon. 1841, p. 99, t. 38, f. 184; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 125.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yass, N. S. Wales.          |
| <i>L. rugifera</i> , <i>Phillips</i> .         | U. Pal. (Carb.)     | <i>Melania</i> , *Geol. York. 1836, II. p. 229, t. 16, f. 26; <i>Chemnitzia</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 462, t. 41, f. 2; <i>Melania</i> , Brown, *Foss. Conch. 1849, p. 96, t. 45, f. 45; <i>Loroxenema</i> , M'Coy, *Brit. Pal. Foss. p. 545; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 338, t. 23, f. 21.                                                                                                                                                                                                                                                                                                       | Burrageood, N. S. Wales.    |
| <i>M. acutus</i> , <i>J. de C. Sowerby</i> .   | U. Pal. (Carb.)     | <i>Buccinum</i> , *Min. Con. 1827, VI. p. 127, t. 566, f. 1; <i>id.</i> Phillips, *Geol. York. 1836, II. p. 230, t. 16, f. 11 and 21; <i>B. imbricatum</i> , <i>id.</i> * <i>ibid.</i> p. 229, t. 16, f. 17—20; <i>Macrocheilus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 473, t. 40, f. 10 <i>a</i> and <i>b</i> , t. 41, f. 13 <i>a</i> and <i>b</i> ; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 28; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 256; <i>id.</i> de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 104, t. 4, f. 9; <i>id.</i> <i>ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 334, t. 23, f. 24. | Burrageood, N. S. Wales.    |
| <i>M. filiosus</i> , <i>J. de C. Sowerby</i> . | U. Pal. (Carb.)     | <i>Littorina</i> , Mitchell's *Three Exped. Int. E. Austr. 1838, I. p. 38, t. 2, f. 5; Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 285, t. 18, f. 4; <i>Littorina</i> , Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 85.                                                                                                                                                                                                                                                                                                                                                                                                                                  | Booral; Karua, N. S. Wales. |

Genus *Mitchellia*, *L. G. de Koninck*, 1876. (Foss. Pal. Nouv.-Galles du Sud, pt. 2, p. 128.)  
*Prosobr.-Buccinidæ?*

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|--------------------------------------|---------------------|------------------------------------------------|--------------------|
| <i>M. striatula</i> , <i>de Kon.</i> | Mid. Pal. (L. Dev.) | * <i>loc. cit.</i> p. 129, Atlas, t. 4, f. 12. | Yass, N. S. Wales. |
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(Gasteropoda.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                 | Strat. Subdivision.                    | References.                                                                                                                                                                                                                                                            | Localities, &c.                 |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Genus <b>Murchisonia</b> , <i>d'Archiac and de Verneuil</i> , 1841 (see p. 25).— <i>Prosobr.-Pleurotomariidæ</i> . |                                        |                                                                                                                                                                                                                                                                        |                                 |
| <i>M. angulata</i> , <i>Clarke</i> .                                                                               |                                        | ?Vide <i>M. Verneuiliana</i> , de Kon.                                                                                                                                                                                                                                 |                                 |
| <i>M. carinata</i> , <i>Etheridge</i> .                                                                            | U. Pal. (Carb.)                        | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 337, t. 18, f. 5.                                                                                                                                                                                                            | Don River, Qu.                  |
| <i>M. granifera</i> , <i>de Kon.</i>                                                                               | Mid. Pal. (L. Dev.)                    | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 121, Atlas, t. 4, f. 6.                                                                                                                                                                                               | Yass, N. S. Wales.              |
| <i>M.?</i> <i>tricincta</i> , <i>Morris</i> .                                                                      | U. Pal. (Carb.)                        | Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 285, t. 18, f. 3; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 85.                                                                                                                         | Booral, N. S. Wales.            |
| <i>M. trifiliata</i> , <i>Dana</i> .                                                                               | U. Pal. (Carb.)                        | <i>Pleurotomaria</i> , *Amer. Jour. Sc. 1847, IV. p. 151; <i>id. ibid.</i> v. p. 434; <i>P. Morrisiana</i> , *Geol. U. S. Explor. Exped. p. 706, Atlas, t. 9, f. 16 (and ? 15); <i>Murchisonia</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 327. | Harper's Hill, N. S. Wales.     |
| <i>M. turris</i> , <i>de Kon.</i>                                                                                  | Mid. Pal. (L. Dev.)                    | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 120, t. 4, f. 5.                                                                                                                                                                                                             | Yass, N. S. Wales.              |
| <i>M. Verneuiliana</i> , <i>de Koninck</i> .                                                                       | Mid. Pal. (L. Dev.)<br>U. Pal. (Carb.) | *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 414, t. 38, f. 5; *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 119; * <i>ibid.</i> pt. 3, 1877, p. 329, t. 23, f. 15; ? <i>M. angulata</i> , <i>Clarke</i> , S. Goldfields, 1860, p. 288.                     | Yass; Munnawarree, N. S. Wales. |

Genus **Naticopsis**, *McCoy*, 1844 (Synop. Carb. Foss. Ireland, p. 33) = *Naticodon*, de Ryckholt, 1847.—*Prosobr.-Naticidæ*.

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| <i>N.?</i> <i>harpæformis</i> ,<br><i>Etheridge</i> . | U. Pal. (Carb.) | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 337, t. 18, f. 6. | Don River, Qu. |
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Genus **Niso**, *Risso*, 1826. (Hist. Nat. Europe Mérid. IV. p. 218.)  
*Prosobr.-Eulimidæ*.

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| <i>N.?</i> <i>Darwinii</i> , <i>de Kon.</i> | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 127, t. 4, f. 11. | Yass, N. S. Wales. |
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Genus **Patella**, *Linnæus*, 1740. (Systema Nat. p. 63; *id.* ed. 10, 1758, p. 780; Lamarck, Prodrôme, 1799, p. 78.)—*Prosobr.-Patellidæ*.

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|-----------------------------------|--|----------------------------------------------|--|
| <i>P. tenella</i> , <i>Dana</i> . |  | Vide <i>Capulus tenellus</i> , <i>Dana</i> . |  |
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Genus **Pileopsis**, *Lamarck*, 1820. (Hist. Nat. Anim. sans Vertèb. VI. pt. 2, p. 381.)  
Vide *Capulus*, de Montf.

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|-----------------------------------|--|----------------------------------------------|--|
| <i>P. alta</i> , <i>Dana</i> .    |  | Vide <i>Capulus altus</i> , <i>Dana</i> .    |  |
| <i>P. tenella</i> , <i>Dana</i> . |  | Vide <i>Capulus tenellus</i> , <i>Dana</i> . |  |

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
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Genus *Platyceras*, *Conrad*, 1840. (3rd Ann. Report, Pal. N. York, p. 205.)  
*Vide Capulus*, de Montf.

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| <i>P. altum</i> , <i>Dana</i> .             |  | <i>Vide Capulus altus</i> , <i>Dana</i> .          |  |
| <i>P. angustatum</i> ,<br><i>Phillips</i> . |  | <i>Vide Capulus angustatus</i> , <i>Phillips</i> . |  |
| <i>P. tenella</i> , <i>Dana</i> .           |  | <i>Vide Capulus tenellus</i> , <i>Dana</i> .       |  |
| <i>P. trilobatum</i> , <i>de Koninck</i> .  |  | <i>Vide Capulus trilobus</i> , <i>Phillips</i> .   |  |

Genus *Platyschisma*, *McCoy*, 1844. (Synop. Carb. Foss. Ireland, p. 38.)  
*Prosobr.-Turbinidæ*.

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| <i>P. depressa</i> , <i>Dana</i> .          | U. Pal. (Carb.) | *American Jour. Sc. 1847, iv. p. 151; *Geol. U. S. Expl. Expd. p. 707, Atlas, t. 10, f. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Harper's Hill, N. S. Wales.           |
| <i>P. ocula</i> , <i>J. de C. Sowerby</i> . | U. Pal. (Carb.) | <i>Trochus</i> , Mitchell's *Three Expds. Int. E. Austr. 1838, i. p. 15, t. 2, figs. 3 and 4; <i>Platyschisma</i> , Morris, Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 286, t. 18, f. 1; <i>id.</i> McCoy, Annals Nat. Hist. 1847, xx. p. 306; <i>id.</i> Dana, *Geol. U. S. Expl. Expd. p. 707, t. 10, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 86 and 89; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; <i>Euomphalus</i> , de Koninck, Foss. Pal. Nouy.-Galles du Sud, 1877, pt. 3, p. 330, t. 23, f. 18. | Illawara; Harper's Hill, N. S. Wales. |
| <i>P. rotundata</i> , <i>Morris</i> .       | U. Pal. (Carb.) | Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 286, t. 18, f. 2; Dana, *Geol. U. S. Expl. Expd. p. 707; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 86 and 89; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; Clarke, S. Goldfields, 1860, 288.                                                                                                                                                                                                                                                                                                 | Illawara; Harper's Hill, N. S. Wales. |

Genus *Pleurotomaria*, *DeFrance*, 1824. (Tableau, p. 114; Dict. Sc. Nat. 1826, xli. p. 381.)  
*Prosobr.-Pleurotomariidæ*.

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| <i>P. cancellata</i> , <i>Strzelecki</i> . |                | <i>Vide P. subcancellata</i> , <i>Morris</i> .                                                                                                                                                                                                                                                                                                              |             |
| <i>P. carinata</i> , <i>J. Sow.</i>        | M. Pal. (Dev.) | <i>Helix</i> , *Min. Con. i. p. 34, t. 10, f. 3 (upper and lower figs.); <i>Pleurotomaria</i> , <i>Phillips</i> , *Geol. York. 1836, ii. p. 226, t. 15, f. 1; <i>id.</i> de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 397, t. 31, f. 1 a—d; <i>id.</i> McCoy, *Synop. Carb. Foss. Ireland, 1844, p. 39; <i>id.</i> Brown, *Foss. Conch. 1849, | Gympie, Qu. |

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                             | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                           |
|------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <i>P. gemmulifera</i> ,<br><i>Phillips</i> .   | U. Pal. (Carb.)     | p. 87, t. 40, f. 24 and 25; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. p. 272; <i>id.</i> Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 331, t. 15, f. 6.                                                                                                                                                                                                                                                                                                                             | Stony Creek; W. Maitland, N. S. Wales.    |
| <i>P. helicinæformis</i> , <i>de Koninck</i> . | U. Pal. (Carb.)     | *Geol. York. 1836, ii. p. 227, t. 15, f. 19; de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 370, t. 31, f. 7 a—d; Brown, *Foss. Conch. 1849, p. 87, t. 40, f. 28 and 29; Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 272; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 324, t. 23, f. 9.                                                                                                                                                                      | Burrageood, N. S. Wales.                  |
| <i>P. humilis</i> , <i>de Kon.</i>             | U. Pal. (Carb.)     | *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 325, t. 23, f. 14.                                                                                                                                                                                                                                                                                                                                                                                                                           | Raymond Terrace, N. S. Wales.             |
| <i>P. Morrisiana</i> ,<br><i>M'Coy</i> .       | U. Pal. (Carb.)     | *Annals Nat. Hist. 1847, xx. p. 306, t. 17, f. 5; Dana, *Geol. U. S. Expl. Exped. p. 706, t. 9, f. 15; M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 329, t. 17, f. 5; Clarke, S. Goldfields, 1860, p. 288; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 321, t. 23, f. 12.                                                                                                                                                                                                   | Black Head; Illawara; Muree, N. S. Wales. |
| <i>P. naticoides</i> , <i>de Koninck</i> .     | U. Pal. (Carb.)     | *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 405, t. 31, f. 8; *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 101; *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 326, t. 23, f. 10.                                                                                                                                                                                                                                                                                             | Harper's Hill, N. S. Wales.               |
| <i>P. nuda</i> , <i>Dana</i> .                 | U. Pal. (Carb.)     | *Amer. Jour. Soc. 1847, iv. p. 151; *Geol. U. S. Explor. Exped. p. 706, Atlas, t. 9, f. 17.                                                                                                                                                                                                                                                                                                                                                                                                   | Harper's Hill, N. S. Wales.               |
| <i>P. rotunda</i> , <i>Etheridge</i> .         | U. Pal. (Carb.)     | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 336, t. 18, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cracow Creek, Qu.                         |
| <i>P. striata</i> , <i>J. Sow.</i>             | U. Pal. (Carb.)     | <i>Helix?</i> *Min. Con. 1817, ii. p. 159, t. 171, f. 1; <i>Pleurotomaria</i> , Phillips, *Geol. York. 1836, ii. p. 226; <i>Ptychomphalus</i> , Agassiz, *Traduct. de la Conch. Miner. de Sowerby, 1838, p. 222, t. 115, f. 1—3!; <i>Pleurotomaria</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 399, t. 31, f. 2 a—c; <i>id.</i> Brown, *Foss. Conch. 1849, p. 86, t. 40, f. 15 and 16; <i>id.</i> Morris, Cat. Brit. Foss. 1854, 2nd ed. p. 273; <i>id.</i> M'Coy, | Duguid's Hill, N. S. Wales.               |

(Gasteropoda.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                           | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                           | Localities, &c.                                            |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <i>P. Strzeleckiana</i> ,<br><i>Morris</i> . | U.Pal.(Carb.)       | *Brit. Pal. Foss. p. 529; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 323, t. 23, f. 11.<br>Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 287, t. 18, f. 5; M'Coy, Annals Nat. Hist. 1847, xx. p. 306; Daria, *Geol. U. S. Explor. Exped. p. 707; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 87 and 89; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4. | Glendon; Harper's Hill; Wollongong; Illawara, N. S. Wales. |
| <i>P. subcancellata</i> ,<br><i>Morris</i> . | U.Pal.(Carb.)       | <i>P. cancellata</i> , Strzelecki, Physic. Descrip. N. S. Wales, 1845, p. 91; <i>P. subcancellata</i> , Morris, Strzelecki's * <i>id.</i> p. 288, t. 18, f. 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 305; <i>P. cancellata</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 89; <i>P. subcancellata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 322.     | Illawara; Loder's Creek; Muree, N. S. Wales.               |
| <i>P. subconica</i> , <i>de Kon.</i>         | Mid. Pal. (L. Dev.) | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 121, Atlas, t. 4, f. 7.                                                                                                                                                                                                                                                                                                                                              | Yass, N. S. Wales.                                         |
| <i>P. trifilata</i> , <i>Dana</i> .          |                     | Vide <i>Murchisonia</i> .                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |

Genus **Porcellia**, *Leveille*, 1835. (Mém. Soc. Géol. France, ii. p. 39; Stoliczka, Pal. Indica, ii. p. 381.)—*Prosobr.-Pleurotomariidæ*.

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| <i>P. Woodwardii</i> ,<br><i>Martin</i> . | U.Pal.(Carb.) | <i>Conch.</i> (N. <i>Ammonites</i> ), *Pet. Derb. 1809, t. 35, f. 4 and 5; <i>Nautilus</i> , J. de C. Sowerby, *Min. Con. 1827, vi. p. 138, t. 571, f. 3; <i>Bellerophon</i> , Phillips, *Geol. York. 1836, ii. p. 231, t. 17, f. 1—3; <i>Porcellia</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belg. 1844, p. 360, t. 28, f. 2; <i>Bellerophon</i> , Brown, *Foss. Conch. 1849, p. 38, t. 26, f. 14 and 20, t. 23, f. 12; <i>Porcellia</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 289; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 319, t. 23, f. 8. | Burrageood, N. S. Wales. |
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Genus **Trochus**, *Linnaeus*, 1758. (Systema, ed. 10, p. 756; Lamarck, Prodrôme, 1799, p. 74; Système, 1801, p. 85; *id.* Histoire, 1822, vii. p. 9; Adams, Genera, 1854, i. p. 412.)—*Prosobr.-Turbinidæ*.

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| <i>T. oculus</i> , <i>J. de C. Sowerby</i> . |  | Vide <i>Platyschisma ocula</i> . |  |
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(Pteropoda.)

(Mid. and Up. Palæozoic.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
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Genus **Turritella**, *Lamarck*, 1799. (Prodrome, p. 74; Système, 1801, p. 89; Adams, Genera, 1854, i. p. 351.)—*Prosobr.-Turritellidæ*.

*T. tricineta*, *Morris*. | | Vide *Murchisonia? tricineta*. |

*Class*—Pteropoda. *Section*—Thecosomata.

Genus **Conularia**, (*Miller*) *J. Sowerby*, 1820 (see p. 26).—?*Hyaloidæ*.

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|----------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <i>C. inornata</i> , <i>Dana</i> .           | U.Pal.(Carb.) | *Geol. U. S. Expl. Expd. p. 709, Atlas, t. 10, f. 8; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 314, t. 22, f. 14.                                                                                                                                                                                                                                                                                           | Glendon, N. S. Wales.                                                  |
| <i>C. lævigata</i> , <i>Morris</i> .         | U.Pal.(Carb.) | Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 290, t. 18, f. 9; M'Coy, Annals Nat. Hist. 1847, xx. p. 306; <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 710, t. 10, f. 9; Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, ii. pp. 85 and 89; Plevs, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; Clarke, S. Goldfields, 1860, p. 288; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 313, t. 23, f. 1. | Illawara, N. S. Wales.<br>Raymond Terrace; Harper's Hill, N. S. Wales. |
| <i>C. quadrisulcata</i> ,<br><i>Miller</i> . | U.Pal.(Carb.) | <i>J. Sowerby</i> , *Min. Con. III. 1820, p. 107, t. 260, f. 3—5; M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 26; <i>id.</i> *Brit. Pal. Foss. p. 528; Brown, *Foss. Conch. 1849, p. 43, t. 29, f. 27; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 311, t. 23, f. 3.                                                                                                                                             | Buchan; Gloucester, N. S. Wales.                                       |
| <i>C. tenuistriata</i> ,<br><i>M'Coy</i> .   | U.Pal.(Carb.) | *Annals Nat. Hist. 1847, xx. p. 307, t. 17, figs. 7 and 8; <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 710; M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 330, t. 17, figs. 7 and 8; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 310, t. 23, f. 2.                                                                                                                                                              | Muree, N. S. Wales.                                                    |
| <i>C. torta</i> , <i>M'Coy</i> .             | U.Pal.(Carb.) | *Annals Nat. Hist. 1847, xx. p. 306, t. 17, figs. 9 and 10; *Proc. R. Soc. V. D. Land, 1851, i. p. 329, t. 17, figs. 9 and 10; Plevs, Mining Inst. Jour. 1858, vi. pt. 3, t. 4.                                                                                                                                                                                                                                                | Muree, N. S. Wales.                                                    |



## (Pteroda—Cephalopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                             | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                             | Localities, &c.                            |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Genus <b>Theca</b> ( <i>J. de C. Sowerby</i> , ms.), <i>Morris</i> , 1845. (Strzelecki's Phys. Descr. N. S. Wales, p. 289.)— <i>Hyaleidæ</i> . |                     |                                                                                                                                                                                                                                                                                                                         |                                            |
| <b>T. lanceolata</b> , <i>Morris</i> .                                                                                                         | U. Pal. (Carb.)     | * <i>l. c. t.</i> 18, f. 8; <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1847, xx. p. 306; <i>Dana</i> , * <i>Geol. U. S. Expl. Expd.</i> p. 708, <i>Atlas</i> , t. 10, f. 7; <i>Grange</i> , <i>Dumont-d'Urville's Voyage au Pole Sud, Géologie</i> , 1854, II. p. 89; <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 288. | Black Head; Illawara, <i>N. S. Wales</i> . |

## Class—Cephalopoda. Order—Tetrabranchiata.

Genus **Cameroceeras**, *Conrad*, 1842. (*Jour. Acad. Nat. Sc. Philadel.* VIII. pt. 2, p. 267; *S. P. Woodward*, *Man. Moll.* 2nd ed. 1868, p. 191.)—*Orthoceratidæ*.

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| <b>C. Phillipsii</b> , <i>de Kon.</i> | U. Pal. (Carb.) | <i>Orthoceras laterale</i> , <i>de Koninck</i> , * <i>Descrip. Anim. Foss. Terr. Carb. Belg.</i> 1843, p. 508, t. 43, f. 2 <i>a</i> and <i>b</i> (non <i>Phillips</i> ); <i>C. Phillipsii</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 344, t. 24, f. 1. | Chinaman's Gully, <i>N. S. Wales</i> . |
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Genus **Cyrtoceras**, *Goldfuss*, 1832. (*De la Beche's Handb. d. Geognosie*, p. 536; *S. P. Woodward*, *Man. Moll.* 2nd ed. 1868, p. 194.)—*Orthoceratidæ*.

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| <b>C. textile</b> , <i>de Kon.</i> | Mid. Pal. (L. Dev.) | * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 131, t. 4, f. 13. | Yass, <i>N. S. Wales</i> . |
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Genus **Goniatices**, *de Haan*, 1825. (*Mon. Ammon. et Goniatices*, p. 39.)  
? = *Aganides*, *Montfort*, 1808.—*Ammonitidæ*.

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| <b>G. micromphalus</b> , <i>Morris</i> . | U. Pal. (Carb.) | <i>Bellerophon</i> , <i>Strzelecki's Phys. Descrip.</i> N. S. Wales, 1845, p. 288, t. 18, f. 7; <i>id.</i> <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1847, xx. p. 308; <i>id.</i> <i>Dana</i> , * <i>Geol. U. S. Expl. Expd.</i> p. 708, t. 10, f. 6; ? <i>B. undulatus</i> , <i>id.</i> <i>ibid.</i> p. 707, t. 10, f. 4; <i>ibid.</i> <i>id.</i> * <i>American Jour. Sc.</i> 1847, IV. p. 151; <i>B. micromphalus</i> , <i>Grange</i> , <i>Dumont-d'Urville's Voyage au Pole Sud, Géologie</i> , 1854, II. p. 89; <i>B. micromphalus</i> et ? <i>B. undulatus</i> , <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 288; <i>Goniatices</i> , <i>de Koninck</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 339, t. 24, f. 5. | Illawara; Wollongong; Muree; Harper's Hill, <i>N. S. Wales</i> . |
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## (Gephalopoda.)

## (Mid. and Up. Palæozoic.)

| Genus and Species.          | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                  | Localities, &c.                         |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <i>G. strictus</i> , Dana.  | U. Pal. (Carb.)      | <i>Bellerophon</i> , *American Jour. Sc. 1847, iv. p. 151; <i>id.</i> *Geol. U. S. Explor. Exped. p. 707, t. 10, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288; <i>Goniatites</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 341. | Wollongong; Harper's Hill, N. S. Wales. |
| <i>G. Woodsii</i> , de Kon. | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 130, Atlas, t. 4, f. 15.                                                                                                                                                                                    | Yaralumla, N. S. Wales.                 |

Genus *Nautilus*, Breynius, 1732 (Dissert. de Polythal; S. P. Woodward, Man. Moll. 2nd ed. 1868, p. 185).—*Nautilidæ*.

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| <i>N. subsulcatus</i> , Phillips. | U. Pal. (Carb.) | *Geol. York. 1836, II. p. 233, t. 17, f. 18 and 25; J. de C. Sowerby, *Trans. Geol. Soc. 1840, v. t. 40, f. 7; de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 548, t. 30, f. 6 <i>a—d</i> , t. 47, f. 9, t. 49, f. 4 <i>a</i> and <i>b</i> ; <i>N. (Discites)</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 19; de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 110, t. 4, f. 10; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 345, t. 24, f. 4. | Karua, N. S. Wales.    |
| <i>N. sp. ind.</i>                | U. Pal. (Carb.) | M'Coy, Annals Nat. Hist. 1847, xx. p. 308.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Dunvegan, N. S. Wales. |

Genus *Orthoceras*, Breynius, 1732 (see p. 26).—*Orthoceratidæ*.

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| <i>O. Martinianum</i> , de Koninck.   | U. Pal. (Carb.)      | *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 505, t. 44, f. 4; ? <i>O. Martinianum</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 343, t. 24, f. 3.                                                                                                                | Karua, N. S. Wales.                                    |
| <i>O. striatum</i> , J. Sow.          | U. Pal. (Carb.)      | <i>Orthocera striata</i> , *Min. Con. 1814, i. p. 129, t. 58; <i>Orthoceras striatum</i> , M'Coy, Synop. Carb. Foss. Ireland, 1844, p. 8; <i>ibid.</i> <i>id.</i> (pars), *Brit. Pal. Foss. p. 405; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 341, t. 24, f. 2. | Wollongong; Russell's Shaft, Stony Creek, N. S. Wales. |
| <i>O. subdimidiatum</i> , de Koninck. | Mid. Pal. (L. Dev.). | *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 132, Atlas, t. 4, f. 14.                                                                                                                                                                                                                 | Yass, N. S. Wales.                                     |

Genus *Phragmoceras* (Broderip), J. de C. Sowerby, 1839. (Murchison's Sil. System, p. 621; S. P. Woodward, Man. Moll. 2nd ed. 1868, p. 194).—*Orthoceratidæ*.

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| <i>P. subtrigonum</i> , M'Coy. | Mid. Pal. (M. Dev.) | *Geol. Survey, Vict. Dec. iv. 1876, p. 18, t. 35, f. 6 <i>a</i> and <i>b</i> ; Smyth's Progress Report, 1876, III. p. 62; Couchman's <i>ibid.</i> 1877, iv. p. 17. | Buchan, Vict. |
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(Pisces.)

(Mid. and Up. Palæozoic.)

| Genus and Species.                                                                                                                                            | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Localities, &c.                |
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| <i>Sub-kingdom—Vertebrata. Class—Pisces.</i>                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| Genus <b>Asterolepis</b> , <i>Eichwald</i> , 1840. (Neues Jahrbuch, p. 425; Agassiz, Mon. Poiss. Foss. V. G. R. 1844, p. 89.)— <i>Ganoidei-Placodermata</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| <b>A. ornata</b> , <i>Agassiz</i> .                                                                                                                           | Mid. Pal. (M. Dev.) | <i>loc. cit.</i> p. 425 note; Agassiz, * <i>loc. cit.</i> p. 93, Atlas, t. 30, f. 2—9; Eichwald, *Placodermend. Devon. Syst. 1857, p. 44, t. 5, f. 5—10, t. 9, f. 1—9!; <i>id.</i> * <i>Lethæa Rossica</i> , 1860, i. p. 1508, Atlas, t. 56, f. 1; M'Coy, in Smyth's Progress Report, 1876, iii. p. 62; <i>id.</i> Couchman's Progress Rep. 1877, iv. p. 17; <i>A. ornata</i> , var. <i>Australis</i> , M'Coy, *Geol. Survey, Vict. Dec. iv. 1876, p. 19, t. 35, f. 7 a and b. | Buchan R., <i>Vict.</i>        |
| Genus <b>Tomodus</b> ( <i>Agassiz</i> , ms.), <i>Morris and Roberts</i> , 1862 (Quart. Jour. Geol. Soc. xviii. p. 101)— <i>Selachii-Cochliodontidae</i> .     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| <b>T. convexus</b> , <i>Agassiz</i> .                                                                                                                         | U. Pal. (Carb.)     | Agassiz (ms.), in Morris and Roberts, <i>loc. cit.</i> p. 101; Owen, *Geol. Mag. 1869, iv. p. 62, t. 4, f. 2—5; Barkas and Davies, Geol. Mag. Dec. 2, 1874, i. p. 548; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 354, t. 24, f. 11; ? <i>Cochliodus magnus</i> , (pars) Agassiz.                                                                                                                                                                            | Tillegary, <i>N. S. Wales.</i> |



MESOZOIC.



(Plantæ.)

(Mesozoic.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
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Kingdom—Plantæ. Section—Cryptogamia. Class—Acotyledones.

Genus **Anarthrocanna**, Göppert, 1845. (Tchihatcheff's L'Altai Oriental, p. 379.)  
*Equisetaceæ.*

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| <i>A. Australis</i> , Dana. | L. Mes. (Up. Coal M. of N.S.Wales ? = Trias). | *Geol. U. S. Expl. Expd. p. 720, Atlas, t. 14, f. 13. | Mouth of Hunter River, Newcastle, N. S. Wales. |
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Genus **Confervites**, Brongniart, 1828. (Hist. Vég. Foss. i. p. 35; *Confervides*, Schimper, Traité de Pal. Vég. 1869, i. p. 153.)—*Algales-Confervaceæ.*

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| <i>C. ? tenella</i> , Dana. | L. Mes. (Up. Coal M. of N.S.Wales ? = Trias). | *Geol. U. S. Expl. Expd. p. 720, Atlas, t. 14, f. 9. | N. S. Wales. |
|-----------------------------|-----------------------------------------------|------------------------------------------------------|--------------|

Genus **Cyclopteris**, Brongniart, 1828. (Prodrome, p. 51; Histoire Vég. Foss. p. 215; Schimper, Traité de Pal. Vég. 1866, i. pp. 366 and 420.)—*Filices-Neuropteridæ.*

|                                 |                                              |                                                                                                                                |                       |
|---------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <i>C. angustifolia</i> , M'Coy. |                                              | Vide <i>Gangamopteris angustifolius</i> , M'Coy.                                                                               |                       |
| <i>C. cuneata</i> , Carruthers. | L. Mes. (Up. Coal M. of Qu. Land ? = Trias). | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 5; Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 4, p. 123. | Tivoli Coal Mine, Qu. |

Genus **Gangamopteris**, M'Coy, 1860. (Trans. R. Soc. Vict. v. p. 107 note; Geol. Survey, Vict. Dec. iii. p. 11; Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 3, p. 73.)—*Filices-Neuropteridæ.*

|                                  |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
|----------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <i>G. angustifolius</i> , M'Coy. | L. Mes. (Bacchus Marsh Sandstone). | <i>Cyclopteris</i> , *Annals Nat. Hist. 1847, xx. p. 148, t. 9, f. 3; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 306, t. 9, f. 3; <i>Cyclopteris</i> , Unger, *Genera et Spec. 1850, p. 95; <i>Gangamopteris</i> , Trans. R. Soc. Vict. 1860, v. p. 107; <i>id.</i> Annals Nat. Hist. 1867, xx. p. 198; <i>id.</i> Smyth's Progress Report, 1874, p. 34; <i>id.</i> *Geol. Survey, Vict. 1875, Dec. ii. p. 11, t. 12, f. 1, t. 13, f. 2; <i>id.</i> Feistmantel, Rec. Geol. Survey, India, 1876, ix. pt. 4, p. 123. | Guntawang, N. S. Wales.<br>Bacchus Marsh, Vict. |
| <i>G. longifolius</i> , M'Coy.   | L. Mes. (Bacchus Marsh Sandstone). | Selwyn, Phys. Geog. Geol. and Miner. Vict. 1866, p. 16; <i>id.</i> Descript. Cat. National Mus. Melbourne, Geol. Survey, Vict. 1868, p. 51.                                                                                                                                                                                                                                                                                                                                                                                | Bacchus Marsh, Vict.                            |

(Plantæ.)

(Mesozoic.)

| Genus and Species.           | Strat. Subdivision.                | References.                                                                                                                                                           | Localities, &c.      |
|------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <i>G. obliqua</i> , M'Coy.   | L. Mes. (Bacchus Marsh Sandstone). | Smyth's Progress Report, 1874, p. 34; *Geol. Survey, Vict. 1875, Dec. II. p. 13, t. 12, figs. 2—4; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 4, p. 123. | Bacchus Marsh, Vict. |
| <i>G. spatulata</i> , M'Coy. | L. Mes. (Bacchus Marsh Sandstone). | Smyth's Progress Report, 1874, p. 34; *Geol. Survey, Vict. Dec. II. 1875, p. 12, t. 13, f. 1; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 4, p. 123.      | Bacchus Marsh, Vict. |

Genus *Glossopteris*, Brongniart, 1828 (see p. 30).—*Filices*.

|                                                 |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                |
|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <i>G. ampla</i> , Dana.                         | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Geol. U. S. Expl. Exp. p. 717, Atlas, t. 13, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Newcastle and Illawara, N. S. Wales.                                           |
| <i>G. Browniana</i> , Brongniart <sup>1</sup> . | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Prodrome, 1828, p. 54; <i>G. Browniana</i> , var. <i>Australasiaca</i> , *Hist. Végét. Foss. 1828, I. p. 223, t. 62; Morris, Strzelecki's *Phys. Deser. N. S. Wales and V. D. Land, 1845, p. 247, t. 6, f. 1; M'Coy, *Annals Nat. Hist. 1847, XX. p. 150; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, I. p. 307; Dana, *Geol. U. S. Expl. Expd. p. 716, Atlas, t. 14, figs. 12? and 13; Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 3; Bunbury, Quart. Jour. Geol. Soc. 1860, XVI. p. 330, t. 9, figs. 1—4; Göppert, *Syst. Fil. Foss. p. 364, t. 21, figs. 9 and 10; Unger, Gen. et Spec. 1850, p. 169; Schimper, *Traité de Pal. Vég. 1869, I. p. 645; Carruthers, Quart. Jour. Geol. Soc. 1872, XXVIII. p. 354; M'Coy, Smyth's Progress Report, 1874, p. 24; <i>id.</i> Geol. Survey, Vict. Dec. I. 1874, p. 34; Clarke, Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, pp. 19—36; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 3, p. 72. <i>id.</i> <i>ibid.</i> IX. pt. 4, p. 124. | Newcastle; Jerry's Plain; Mulu-bimba; Illawara, N. S. Wales. Tasmania (M'Coy). |
| <i>G. ? cordata</i> , Dana.                     | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Illawara, N. S. Wales.                                                         |
| <i>G. elongata</i> , Dana.                      | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Newcastle, N. S. Wales.                                                        |

<sup>1</sup> See also p. 30.



## (Plantæ.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                     | Strat. Subdivision.                                                    | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <i>G. linearis</i> , <i>M'Coy</i> .                                                                                                                                                    | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).                         | *Annals Nat. Hist. 1847, xx. p. 151, t. 9, f. 5; *Proc. R. Soc. V. D. Land, 1851, i. p. 308, t. 9, f. 5; Unger, Genera et Spec. 1850, p. 169.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wollongong and Arowa, N. S. Wales.     |
| <i>G. reticulatum</i> <sup>1</sup> , <i>Dana</i> .                                                                                                                                     | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).                         | *Geol. U. S. Expl. Expd. p. 717, Atlas, t. 13, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Newcastle and Pillawara, N. S. Wales.  |
| Genus <i>Odontopteris</i> , <i>Brongniart</i> , 1828. (Prodrome, p. 60; Hist. Vég. Foss. p. 250; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 453.)— <i>Filices-Neuropteridæ</i> . |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>O. microphylla</i> , <i>M'Coy</i> .                                                                                                                                                 | L. Mes. (Wianamatta beds of N.S. Wales ? = Trias).                     | *Annals Nat. Hist. 1847, xx. p. 147; *Proc. R. Soc. V. D. Land, 1851, i. p. 305; Unger, Genera et Spec. 1850, p. 90; Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, p. 41.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Clark's Hill, N. S. Wales.             |
| Genus <i>Otopteris</i> , <i>Lindley</i> and <i>Hutton</i> , 1833 ? (Fossil Flora, ii. p. 129; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 483.)— <i>Filices-Neuropteridæ</i> .    |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>O. ovata</i> , <i>M'Coy</i> .                                                                                                                                                       | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).                         | *Annals Nat. Hist. 1847, xx. p. 148, t. 9, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 303, t. 9, f. 2; <i>Odontopteris</i> , Unger, Genera et Spec. 1850, p. 89; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Arowa, N. S. Wales.                    |
| Genus <i>Pecopteris</i> , <i>Brongniart</i> , 1828. (Prodrome, p. 54; Hist. Vég. Foss. p. 267; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 498.)— <i>Filices-Pecopteridæ</i> .    |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <i>P. Australis</i> , <i>Morris</i> .                                                                                                                                                  | L. Mes. (Up. Coal M. of N.S. Wales; Bellarine bedsof Vict. ? = Trias). | Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 248, t. 7, figs. 1 and 2; M'Coy, Annals Nat. Hist. 1862, ix. p. 143; <i>id. ibid.</i> 1867, xx. p. 197; <i>Alethopteris</i> , Schimper, * <i>Traité de Pal. Végét.</i> 1869, i. p. 569; <i>Pecopteris</i> , M'Coy, Smyth's Progress Rept. 1874, pp. 24 and 35; <i>id.</i> Geol. Survey, Vict. Dec. i. 1874, p. 34; <i>id. ibid.</i> *Dec. ii. 1875, p. 16, t. 14, f. 3; <i>Pecopteris</i> , Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 4, p. 123; ? = <i>Alethopteris Whitbyensis</i> (Göpp.), Feistmantel, Pal. Indica, 1876, xi. p. 24; <i>Alethopteris Australis</i> , <i>id. ibid.</i> ser. ii. no. 2, 1877, p. 89. | Jerusalem Basin, Tas. Bellarine, Vict. |

<sup>1</sup> In the character of its reticulation, this form closely resembles the second figure of *G. Browniana*, given by Brongniart (*l. c.* t. 62, f. 2). *Dana*.

## (Plantæ.)

## (Mesozoic.)

| Genus and Species.                             | Strat. Subdivision.                                                                   | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Localities, &c.                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <i>P. odontopteroides</i> ,<br><i>Morris</i> . | L. Mes. (Up. Coal M. of Q. Land).<br>L. Mes. (Wianamatta beds of N.S. Wales ? Trias). | Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 249, t. 6, f. 2—4; <i>Gleichenites</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 147; <i>id. ibid.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 305; <i>id.</i> Milligan, Proc. R. Soc. V. D. Land, 1851, i. p. 24; <i>id.</i> Unger, *Gen. et Sp. 1850, p. 208; <i>Cycadop-teris</i> , Schimper, *Traité de Pal. Vég. 1869, i. p. 488; <i>Alethop-teris</i> ? * <i>id. ibid.</i> p. 569; <i>Peco-pteris</i> , Carruthers, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 2 and 3; <i>Gleich-enites</i> , Clarke, Remarks Sed. Forms. N. S. Wales, 1875, 3rd ed. p. 41; <i>Odontopteris</i> , Crepin, *Bull. de l'Acad. R. Belgique, 1875, xxxix. p. 258, f. 1—5; <i>Peco-pteris</i> ( <i>Thinnfeldia</i> ?), Feist-mantel, Records Geol. Survey, India, 1876, ix. pt. 4, pp. 123, 124. | Clark's Hill, N. S. Wales.<br>Jerusalem Basin and Whale's Head, Tas.<br>Tivoli Coal Mine, Qu. |
| <i>P. ? tenuifolia</i> , M'Coy.                | L. Mes. (Wianamatta beds of N.S. Wales ? = Trias).                                    | *Annals Nat. Hist. 1847, xx. p. 152, t. 9, f. 6; *Proc. R. Soc. V. D. Land, 1851, i. p. 308, t. 9, f. 6; Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, p. 41.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Clark's Hill, N. S. Wales.                                                                    |
| <i>P. sp. ind.</i>                             | L. Mes.                                                                               | M'Coy, in Selwyn's Progress Rep. Geol. Survey, Vict. 1861—62, t. 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Victoria.                                                                                     |

Genus *Phyllothea*, Brongniart, 1828. (Prodrome, p. 151; Schimper, Traité de Pal. Vég. i. p. 288.)—*Equisetaceæ*?

|                              |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <i>P. Australis</i> , Brong. | L. Mes. (Up. Coal M. of N.S. Wales; Cape Pat-terson beds of Victoria ? = Trias). | *Prodrome, 1828, p. 152; Morris, Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 250; Lindley and Hutton, Foss. Flora, 1833—35, ii. p. 89; M'Coy, *Annals Nat. Hist. 1847, xx. p. 156; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 312; Dana, *Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 6, t. 14, f. 1; Clarke, S. Goldfields, 1860, p. 285; Selwyn, Phys. Geog. Geol. Mineral, Vict. 1866, p. 20; Unger, Gen. et Spec. 1850, p. 73; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 55; M'Coy, Annals Nat. Hist. 1867, xx. p. 196; Schimper, *Traité Pal. Vég. 1869, i. p. 289; M'Coy, | Newcastle, N. S. Wales.<br>Cape Patterson, Vict. |
|------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

## (Plantæ.)

## (Mesozoic.)

| Genus and Species.                 | Strat. Subdivision.                         | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Localities, &c.                                  |
|------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <i>P. Hookeri</i> , <i>M'Coy</i> . | L. Mes. (Up. Coal M. of N.S.Wales ?=Trias). | Westernport Coal-fields Rept. 1872, p. 6; <i>id.</i> Smyth's Progress Report, 1874, pp. 24 and 35; Feistmantel, Records Geol. Sur. India, ix. pt. 4, p. 124.<br>*Annals Nat. Hist. 1847, xx. p. 157, t. 11, figs. 4—7; *Proc. R. Soc. V. D. Land, 1851, i. p. 313, t. 11, figs. 4—7; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 59; Schimper, *Traité Pal. Vég. 1869, i. p. 289; Unger, Genera et Spec. 1850, p. 73. | Mulubimba; Clark's Hill, and Arowa, N. S. Wales. |
| <i>P. ramosa</i> , <i>M'Coy</i> .  | L. Mes. (Up. Coal M. of N.S.Wales ?=Trias). | *Annals Nat. Hist. 1847, xx. p. 156, t. 11, figs. 2 and 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 312, t. 11, figs. 2 and 3; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; Unger, Genera et Spec. 1850, p. 73; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 57; Schimper, *Traité de Pal. Vég. 1869, i. p. 289.                                                                                                                                                      | Mulubimba, N. S. Wales.                          |

Genus *Sphenopteris*<sup>1</sup>, *Brongniart*, 1828 (see p. 32).—*Filices-Sphenopteridæ*.

|                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |
|------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <i>S. alata</i> , <i>Brongniart</i> .    | L. Mes. (Up. Coal M. of N.S.Wales ?=Trias). | <i>Pecopteris</i> , *Hist. Vég. Foss. 1828, i. p. 361, t. 127; <i>Sphenopteris alata</i> , var. <i>exilis</i> , Morris, Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 246, t. 7, f. 4; <i>S. alata</i> , <i>M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 149; <i>id. ibid.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 306; Schimper, *Traité de Pal. Vég. 1869, i. p. 411; Clarke, Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, p. 41. | Newcastle and Mulubimba, N. S. Wales. |
| <i>S. elongata</i> , <i>Carruthers</i> . | L. Mes. (Up. Coal M. of Q. Land ?=Trias).   | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 1.                                                                                                                                                                                                                                                                                                                                                                                             | Tivoli Coal Mine, Qu.                 |
| <i>S. flexuosa</i> , <i>M'Coy</i> .      | L. Mes. (Up. Coal M. of N.S.Wales ?=Trias). | *Annals Nat. Hist. 1847, xx. p. 150, t. 9, f. 4; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 9, f. 4; Plews, Mining Inst. Jour. 1858,                                                                                                                                                                                                                                                                                                                | Mulubimba, N. S. Wales.               |

<sup>1</sup> The Rev. W. B. Clarke mentions in his *Southern Goldfields*, p. 285, the occurrence of *S. linearis* in New South Wales, but does not give the author of the species. In the *Mining Institution Journal*, vi. pt. 3, pl. 3, Mr H. F. Plews figures a fern under the name of *S. macilenta*? also without the name of the author. Both these names have been given to British Carboniferous species, but whether identical species are meant I am unable to say.

## (Plantæ.)

## (Mesozoic.)

| Genus and Species.                    | Strat. Subdivision.                            | References.                                                                                                                                                                                                                                                                                                                               | Localities, &c.                       |
|---------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <i>S. germanus</i> , <i>M'Coy</i> .   | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; Schimper, *Traité de Pal. Vég. 1869, i. p. 411; Unger, Gen. et Spec. 1850, p. 127.<br>*Annals Nat. Hist. 1847, xx. p. 150, t. 10, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 10, f. 2; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 411. | Mulubimba, N. S. Wales.               |
| <i>S. hastata</i> , <i>M'Coy</i> .    | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Annals Nat. Hist. 1847, xx. p. 149, t. 10, f. 1; *Proc. R. Soc. V. D. Land, 1851, i. p. 306, t. 10, f. 1; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 410.                                                                                            | Mulubimba, N. S. Wales.               |
| <i>S. lobifolia</i> , <i>Morris</i> . | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 246, t. 7, f. 3; M'Coy, Annals Nat. Hist. 1847, xx. p. 149; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 306; Dana, *Geol. U. S. Expl. Expd. p. 715, Atlas, t. 12, f. 12.                                                                                             | Newcastle and Mulubimba, N. S. Wales. |
| <i>S. plumosa</i> , <i>M'Coy</i> .    | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Annals Nat. Hist. 1847, xx. p. 150, t. 10, f. 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 10, f. 3; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 411.                                                                                                                                             | Mulubimba, N. S. Wales.               |
| <i>S. sp. ind.</i>                    | L. Mes.                                        | M'Coy, Selwyn's Geol. Survey Rept. Vict. 1861—62, t. 3; Wilkinson, Geol. Report Cape Otway Dist. 1865, p. 22; Smyth's Progress Report, 1874, p. 35.                                                                                                                                                                                       | Wild Dog Creek, Apollo Bay, Vict.     |

Genus *Tæniopteris*, *Brongniart*, 1828. (Prodrome, p. 61; Hist. Vég. Fos. p. 262; Schimper, Traité de Pal. Vég. i. p. 600.)—*Filices-Tæniopterideæ*.

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| <i>T. Daintreei</i> , <i>M'Coy</i> . | L. Mes. (Bellarine and Cape Patterson beds of Vict.).<br>L. Mes. (Up. Coal M. of Qu. Land, ? = Trias). | Trans. Roy. Soc. Vict. 1860, v. pp. 196 and 215; Ex. Essay, 1861, p. 166; Hochstetter, Verhandl. K. K. Geol. Reichsanstalt (Jahrb. 1861, xii.), p. 28; M'Coy, Annals Nat. Hist. 1862, ix. p. 143; <i>ibid.</i> 1867, xx. p. 196; Wilkinson, Geol. Report Cape Otway Dist. 1865, p. 22; Carruthers, *Quart. Journ. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 6; M'Coy, Westernport Coalfields Report, 1872, p. 6; <i>id.</i> | Bellarine; Barrabool Hills; Cape Patterson; Strzelecki Range; Murundal, Vict.<br>Tivoli Coal Mine, Qu. |
|--------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

(Plantæ.)

(Mesozoic.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                                                                                                                               | Localities, &c. |
|--------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                    |                     | Smyth's Progress Report, 1874, p. 35; <i>id.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 15, t. 14, figs. 1 and 2; Feistmantel, Records Geol. Survey, India, ix. pt. 4, pp. 123, 124; <i>id.</i> Pal. Indica, ser. II. no. 2, 1877, p. 95. |                 |

Genus **Vertebraria**<sup>1</sup> (Royle), M'Coy, 1847. (Annals Nat. Hist. xx. p. 145.)  
*Marsillaceæ* or *Equisetaceæ*?

|                      |                                                |                                                                                                                                                                                                                                                                                                                                                                                           |                         |
|----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| V. Australis, M'Coy. | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *Annals Nat. Hist. 1847, xx. p. 147, t. 9, f. 1; <i>Sphenophyllum</i> , Unger, Genera et Spec. 1850, p. 72; <i>Vertebraria</i> , M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 304, t. 9, f. 1; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>Sphenophyllum</i> , <i>id.</i> Quart. Jour. Geol. Soc. 1861, xvii. p. 359. | Mulubimba, N. S. Wales. |
|----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|

Section—Phanerogamia. Class—Monocotyledones (Endogenes).

? Genus **Endogenophyllites** (? M'Coy, ms.).

|                                  |  |                                                     |                        |
|----------------------------------|--|-----------------------------------------------------|------------------------|
| E. Wellingtonensis, M'Coy (ms.). |  | Wintle, Monthly Notices R. Soc. Tas. 1869—70, p. 2. | Mount Wellington, Tas. |
|----------------------------------|--|-----------------------------------------------------|------------------------|

Genus **Zeugophyllites**, Brongniart, 1828. (Prodrome, p. 121; Schimper, Traité de Pal. Vég. II. 504.)—*Palmaceæ*.

|                       |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |
|-----------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Z. elongatus, Morris. | L. Mes. (Up. Coal M. of N.S. Wales and Tas. ? = Trias). | Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 250, t. 6, figs. 5 and 5 a; M'Coy, Annals Nat. Hist. 1847, xx. p. 152; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 309; <i>Næggerathia</i> , Dana, *Geol. U. S. Expl. Expd. p. 715; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1861, xvii. p. 359; <i>Zeugophyllites</i> , Schimper, *Traité de Pal. Vég. 1869, i. p. 505; <i>id.</i> Unger, Gen. et Spec. 1850, p. 332; <i>Cordaites</i> ? Crepin, *Bull. de l'Acad. R. Belgique, 1875, xxxix. p. 265. | Mulubimba, N. S. Wales.<br>Jerusalem Basin, Tas. |
|-----------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

Class—Dicotyledones (Exogens).

Genus **Bunyalites**, M'Coy (ms.), 1874. (Geol. Survey, Vict. Dec. I. pp. 32 and 34.)

|             |                           |              |                  |
|-------------|---------------------------|--------------|------------------|
| B. sp. ind. | L. Mes. (Bellarine beds). | M'Coy, l. c. | Bellarine, Vict. |
|-------------|---------------------------|--------------|------------------|

<sup>1</sup> *Vertebraria* was proposed but not described by Royle in his *Illustrations of the Botany of the Himalaya Mountains*. (M'Coy.)

## (Plantæ.)

## (Mesozoic.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

Genus **Cardiocarpum**<sup>1</sup>, *Brongniart*, 1828. (Prodrome, p. 87; *Antholithus*, *Schimper*, *Traité de Pal. Vég.* iii. p. 564; *Cardiocarpon*, *Carruthers*, *Geol. Mag.* 1872, ix. p. 55; = *Antholithes*, *L. & H.*)—*Gymnospermæ*?

|                                          |                                   |                                                                     |                       |
|------------------------------------------|-----------------------------------|---------------------------------------------------------------------|-----------------------|
| <i>C. Australe</i> , <i>Carruthers</i> . | L. Mes. (Up. Coal M. of Q. Land). | * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 356, t. 27, f. 4. | Tivoli Coal Mine, Qu. |
|------------------------------------------|-----------------------------------|---------------------------------------------------------------------|-----------------------|

Genus **Næggerathia**, *Sternberg*.—*Cycadaceæ*?

|                                     |                                                |                                                                                                                    |                            |
|-------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>N. media</i> , <i>Dana</i> .     | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | * <i>Geol. U. S. Expl. Exped.</i> p. 715, Atlas, t. 12, f. 10.                                                     | Hunter River, N. S. Wales. |
| <i>N. spatulata</i> , <i>Dana</i> . | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | * <i>Geol. U. S. Expl. Exped.</i> p. 715, Atlas, t. 12, f. 9; <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 285. | Illawara, N. S. Wales.     |

Genus **Zamites**, *Brongniart*, 1828. (Prodrome, p. 94; *Schimper*, *Traité de Pal. Vég.* ii. p. 151; *Feistmantel*, *Pal. Indica*, 1877, ser. ix. no. 2, p. 114.)—*Cycadaceæ*.

|                                                            |                           |                                                                                                                                                                                                                                                                                                                                        |                         |
|------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <i>Z. Barklyi</i> , <i>M'Coy</i> .                         | L. Mes. (Bellarine beds). | Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey</i> , <i>Vict. Rept.</i> 1861—62, t. 2; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; <i>Z. (Podozamites)</i> , * <i>Geol. Survey</i> , <i>Vict. Dec.</i> 1874, i. p. 33, t. 8, figs. 1, 2 and 5. | Bellarine, <i>Vict.</i> |
| <i>Z. ellipticus</i> , <i>M'Coy</i> .                      | L. Mes. (Bellarine beds). | Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey</i> , <i>Vict. Rept.</i> 1861—62, t. 3; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; <i>Z. (Podozamites)</i> , * <i>Geol. Survey</i> , <i>Vict. Dec.</i> 1874, i. p. 35, t. 8, f. 4.             | Bellarine, <i>Vict.</i> |
| <i>Z. longifolius</i> , <i>M'Coy</i> (non <i>Brong.</i> ). | L. Mes. (Bellarine beds). | Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey</i> , <i>Vict. Rept.</i> 1861—62, t. 2; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; * <i>Geol. Survey</i> , <i>Vict. Dec.</i> i. 1874, p. 35, t. 8, f. 3.                                       | Bellarine, <i>Vict.</i> |

Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.  
Order—Foraminifera.

Genus **Cristellaria**, *Lamarck*, 1812. (Restricted by d'Orbigny, 1826, *Ann. Sc. Nat.* vii. p. 290, including *Robulina*, d'Orbigny, loc. cit. p. 287.)  
*Perforata-Lagenida*.

|                                                       |             |                                                                                |                  |
|-------------------------------------------------------|-------------|--------------------------------------------------------------------------------|------------------|
| <i>C. acutauricularis</i> , <i>Fichtel and Moll</i> . | Up. Oolite. | <i>Nautilus</i> , * <i>Testacea Microscop.</i> 1803, p. 102, t. 18, figs. g—i; | Wollumbilla, Qu. |
|-------------------------------------------------------|-------------|--------------------------------------------------------------------------------|------------------|

<sup>1</sup> Written *Cardiocarpon* by *Brongniart*.

## (Rhizopoda.)

## (Mesozoic.)

| Genus and Species.                                                                 | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Localities, &c.  |
|------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>C. cultrata</i> , Montfort.<br>(var. of <i>C. calcar</i> .<br><i>Linn. ?</i> ). | Up. Oolite.         | <i>Cristellaria</i> , d'Orb. *Ann. Sc. Nat. 1826, vii. p. 292; <i>id.</i> Parker and Jones, Annals Nat. Hist. 1860, v. pp. 114, 183; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239; var. <i>longicostata</i> , <i>id.</i> * <i>ibid.</i> p. 242.<br><i>Robulus</i> , *Conch. Systémat. 1808, i. pp. 214, 215, no. 54; <i>Robulina</i> , d'Orb. *Ann. Sc. Nat. 1826, vii. p. 287; <i>id.</i> *Foram. Foss. Tert. Vien. 1846, p. 96, t. 4, figs. 10 — 13; <i>Cristellaria</i> , Parker and Jones, Annals Nat. Hist. 1860, vi. pp. 343, 347; <i>id.</i> <i>ibid.</i> 1863, xii. p. 436; Parker, Jones, and Brady, <i>ibid.</i> 1865, xvi. pp. 32, 35, t. 1, f. 39; <i>id.</i> Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232; var. <i>radiata</i> , <i>id.</i> <i>ibid.</i> p. 242; <i>C. cultrata</i> , Parker, Jones, and Brady, Annals Nat. Hist. 1871, viii. pp. 240, 265, t. 10, f. 84. | Wollumbilla, Qu. |

Genus *Dentalina*, d'Orbigny, 1826. (Ann. Sc. Nat. vii. p. 254.)  
*Perforata-Lagenida*.

|                             |             |                                                                                                                                                                                                                                                                              |                  |
|-----------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>D. communis</i> , d'Orb. | Up. Oolite. | <i>loc. cit.</i> ; *Mém. Soc. Géol. France, 1840, iv. p. 13, t. 1, f. 4; Jones, Parker, and Brady, *Mon. Crag. Foram. 1866, p. 57, t. 1, figs. 13—18, 20, t. 4, f. 10; Annals Nat. Hist. 1871, viii. p. 158, t. 9, f. 46; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239. | Wollumbilla, Qu. |
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Genus *Planorbulina*, d'Orbigny, 1826. (Ann. Sc. Nat. vii. p. 280.)  
*Perforata-Globigerinidæ*.

|                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |
|-----------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>P. lobatula</i> , d'Orb. | Up. Oolite. | <i>Serpula lobata</i> , Montagu, Test. Brit. t. 3, f. 57; <i>Truncatulina tuberculata</i> , d'Orb. *Ann. Sc. Nat. vii. p. 279; <i>T. lobatula</i> , d'Orb. *Foram. Foss. Tert. Vien. 1846, p. 168, t. 9, figs. 18—23; <i>Planorbulina (Truncatulina) lobatula</i> , Parker and Jones, Annals Nat. Hist. 1859, iv. pp. 339, 341; Parker, Jones, and Brady, <i>ibid.</i> 1865, xvi. t. 2, f. 77; <i>id.</i> <i>ibid.</i> 1871, viii. pp. 176, 266, t. 12, f. 136; <i>P. farcata</i> (F. and M.), var. | Wollumbilla, Qu. |
|-----------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|

## (Rhizopoda.)

## (Mesozoic.)

| Genus and Species.          | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.  |
|-----------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>P. Ungeriana, d'Orb.</i> | Up. Oolite.         | ( <i>Truncatulina</i> ) <i>lobatula</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 381, t. 14, figs. 3—6, t. 16, f. 18—20; <i>P. lobatula</i> , Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.<br><i>Rotalia</i> , *Foram. Foss. Tert. Vien. 1846, p. 159, t. 8, figs. 16—18; <i>P. farcata</i> (F. and M.), var. <i>Ungeriana</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 382, t. 16, figs. 23—25; <i>P. Ungeriana</i> , Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239. | Wollumbilla, Qu. |

Genus **Polymorphina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 265.)  
*Perforata-Lagenida*.

|                                     |             |                                                                                                                                                                                                                                                               |                  |
|-------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>P. gibba, d'Orb.</i>             | Up. Oolite. | <i>Globulina</i> , *L. c. p. 266; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 29, t. 2, f. 52; Brady, Parker, and Jones, *Trans. Linn. Soc. 1870, xxvii. p. 216, t. 39, f. 2 (for synonymy); Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239. | Wollumbilla, Qu. |
| <i>P. lactea, Walker and Jacob.</i> | Up. Oolite. | Parker and Jones, Annals Nat. Hist. 1859, iv. pp. 336, 341; Brady, Parker, and Jones, *Trans. Linn. Soc. 1870, xxvii. p. 213, t. 39, f. 1 (for synonymy); Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.                                                  | Wollumbilla, Qu. |

Genus **Vaginulina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 257.)  
*Perforata-Lagenida*.

|                           |             |                                                                                                                                                          |                  |
|---------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>V. striata, d'Orb.</i> | Up. Oolite. | <i>loc. cit.</i> p. 257; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239; Parker, Jones, and Brady, Annals Nat. Hist. 1871, viii. p. 162, t. 9, f. 58. | Wollumbilla, Qu. |
|---------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|

## Order—Spongida.

Genus **Purisiphonia**, *Bowerbank*, 1870. (Quart. Jour. Geol. Soc. xxvi. p. 240.)  
*Silicea*.

|                            |             |                                                                                   |                  |
|----------------------------|-------------|-----------------------------------------------------------------------------------|------------------|
| <i>P. Clarkei, Bowerb.</i> | Up. Oolite. | <i>loc. cit.</i> p. 241, t. 17, f. 1; Sollas, Annals Nat. Hist. 1877, xv. p. 288. | Wollumbilla, Qu. |
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## (Echinodermata—Brachiopoda.)

## (Mesozoic.)

| Genus and Species. | Strat.<br>Subdivision. | References. | Localities, &c. |
|--------------------|------------------------|-------------|-----------------|
|--------------------|------------------------|-------------|-----------------|

*Sub-kingdom*—Annuloida. *Class*—Echinodermata.

Genus **Pentacrinus**, Miller, 1821. (Nat. Hist. Crinoidea, p. 45.)  
*Crinoidea-Pentacrinidae*.

|                      |             |                                                                        |                                               |
|----------------------|-------------|------------------------------------------------------------------------|-----------------------------------------------|
| P. Australis, Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 17, f. 3, t. 18, f. 1. | Mitchell Downs, Amby River; ?Wollumbilla, Qu. |
|----------------------|-------------|------------------------------------------------------------------------|-----------------------------------------------|

*Sub-kingdom*—Annulosa. *Class*—Annelida.

Genus **Serpula**, Linnaeus, 1758. (Systema, ed. 10, p. 786.)—*Tubicola*.

|                        |             |                                                                                               |             |
|------------------------|-------------|-----------------------------------------------------------------------------------------------|-------------|
| S. intestinalis, Phil. | Up. Oolite. | *Geol. York. 1829, i. p. 138, t. 5, f. 21; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239. | Queensland. |
|------------------------|-------------|-----------------------------------------------------------------------------------------------|-------------|

*Sub-kingdom*—Mollusca. *Section*—Molluscoida. *Class*—Polyzoa.

Genus **Lepralia**, Johnston, 1838 (Hist. Brit. Zoophytes, p. 277) = *Berenicea*, Flem. (non Lamx).—*Cheilostomata-Membraniporidae*.

|                     |             |                                                           |                  |
|---------------------|-------------|-----------------------------------------------------------|------------------|
| L. Oolitica, Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 17, f. 2. | Wollumbilla, Qu. |
|---------------------|-------------|-----------------------------------------------------------|------------------|

*Class*—Brachiopoda.

Genus **Argiope**, Deslongchamps, 1842 (Méms. Soc. Linn. Normandie, vii. p. ix.<sup>1</sup> Davidson, Introduction, p. 72) = *Megathyris*, d'Orbigny.—*Clisterata-Terebratulidae*.

|                             |             |                                                                |                  |
|-----------------------------|-------------|----------------------------------------------------------------|------------------|
| A. punctata, Moore.         | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 244, t. 10, f. 6.      | Wollumbilla, Qu. |
| A. Wollumbillaensis, Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 10, figs. 3—5. | Wollumbilla, Qu. |

Genus **Discina**, Lamarck, 1819 (see p. 48).—*Tretenterata-Discinidae*.

|                     |             |                                                            |                  |
|---------------------|-------------|------------------------------------------------------------|------------------|
| D. apicalis, Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 244, t. 10, f. 13. | Wollumbilla, Qu. |
|---------------------|-------------|------------------------------------------------------------|------------------|

*Note.* A Ventriculite is recorded by Mr F. T. Gregory, from the Greenough River, West Australia (*Quart. Jour. Geol. Soc.* xvii. p. 483). The siliceous cast of a Chalk *Micraster* was recognised by Mr Charles Moore, in a collection of fossils in the Exhibition of 1862, from the Greenough Flats, West Australia (*ibid.* xxvi. p. 28), and a species of Entomostraca from another West Australian collection (*l. c.* p. 231). In the Wollumbilla collection, scars on the interior of a *Panopæa* enabled Mr Moore to surmise the occurrence of *Cirripedes* in Australian Oolitic rocks (*l. c.* p. 243).

<sup>1</sup> The genus was proposed here, but not described.

## (Brachiopoda—Pelecypoda.)

(Mesozoic.)

| Genus and Species.                                                                                | Strat. Subdivision. | References.                                                                                                                                                                  | Localities, &c.  |
|---------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Genus <i>Lingula</i> , Bruguière, 1789 <sup>1</sup> (see p. 49).— <i>Tretenterata-Lingulidæ</i> . |                     |                                                                                                                                                                              |                  |
| <i>L. ovalis</i> , J. Sowerby.                                                                    | Up. Oolite.         | *Min. Con. i. p. 56, t. 19, f. 4; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 240.                                                                                         | Wollumbilla, Qu. |
| Genus <i>Rhynchonella</i> , Fischer, 1809 (vide p. 21).— <i>Clistenterata-Rhynchonellidæ</i> .    |                     |                                                                                                                                                                              |                  |
| <i>R. rustica</i> , Moore.                                                                        | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, figs. 7—9.                                                                                                               | Wollumbilla, Qu. |
| <i>R. solitaria</i> , Moore.                                                                      | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, fig. 10.                                                                                                                 | Wollumbilla, Qu. |
| <i>R. variabilis</i> , Schlot-heim.                                                               | Oolite.             | Davidson, *Brit. Ool. Brach. 1851, p. 78, t. 15, figs. 8—10, t. 16, f. 1—6, Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; Moore, <i>ibid.</i> 1870, xxvi. pp. 231, 232. | W. Australia.    |

Genus *Terebratella*, d'Orbigny, 1847. (Comptes Rendus, xxv. p. 269; Pal. Franç. Ter. Crét. 1847, iv. p. 110, Davidson, Introduction, p. 65.)—*Clistenterata-Terebratulidæ*.

|                              |             |                                                                    |                  |
|------------------------------|-------------|--------------------------------------------------------------------|------------------|
| <i>T. Davidsoni</i> , Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, figs. 1 and 2. | Wollumbilla, Qu. |
|------------------------------|-------------|--------------------------------------------------------------------|------------------|

## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata, or Conchifera).

Genus *Arca*, Linnæus, 1758. (See p. 62.)

|                             |             |                                                           |                  |
|-----------------------------|-------------|-----------------------------------------------------------|------------------|
| <i>A. plicata</i> , Moore.  | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 12, f. 6. | Wollumbilla, Qu. |
| <i>A. prælonga</i> , Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 14, f. 7. | Wollumbilla, Qu. |

Genus *Astarte*, Sowerby, 1816 (see p. 63).—*Lucinacea-Astartidæ*.

|                                     |             |                                                            |                               |
|-------------------------------------|-------------|------------------------------------------------------------|-------------------------------|
| <i>A. apicalis</i> , Moore.         | Oolite.     | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 13, f. 11. | Greenough Dist. W. Australia. |
| <i>A. Cliftoni</i> , Moore.         | Oolite.     | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 13, f. 10. | Greenough Dist. W. Australia. |
| <i>A. Wollumbillaensis</i> , Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 12, f. 12. | Wollumbilla, Qu.              |

<sup>1</sup> The genus *Lingula* was figured by Bruguière in the Atlas of the *Encyclopédie Méthodique*, but not described.

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.                                                                                 | Strat. Subdivision.   | References.                                                  | Localities, &c. |
|----------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------|-----------------|
| Genus <i>Atomodesma</i> , <i>Beyrich</i> , 1865. (Abhandl. K. Akad. Wissen. Berlin, xxxvi. p. 71.) |                       |                                                              |                 |
| <i>A. exarata</i> , <i>Beyrich</i> .                                                               | L. Mesozoic (Trias?). | * <i>loc. cit.</i> p. 71, t. 3, f. 4 <i>a</i> and <i>b</i> . | Timor.          |
| <i>A. mytiloides</i> , <i>Beyrich</i> .                                                            | L. Mesozoic (Trias?). | * <i>loc. cit.</i> p. 71, t. 3, f. 3.                        | Timor.          |

Genus *Avicula*, *Klein*, 1753 (see p. 64).—*Mytilacea-Aviculidæ*.

|                                               |             |                                                                                                                                                                     |                                                      |
|-----------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <i>A. æqualis</i> , <i>Moore</i> .            | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 4.                                                                                                           | Wollumbilla, <i>Qu.</i>                              |
| <i>A. alata</i> , <i>Etheridge</i> .          | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 20, f. 8.                                                                                                         | Maryborough, <i>Qu.</i>                              |
| <i>A. Barklyi</i> , <i>Moore</i> .            | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 11, figs. 1 and 2.                                                                                                  | Wollumbilla, <i>Qu.</i>                              |
| <i>A. Braamburiensis</i> , <i>Phillips</i> .  | Up. Oolite. | *Geol. Yorksh. 1829, i. p. 140, t. 6, f. 6; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 240.                                                              | Wollumbilla, <i>Qu.</i>                              |
| <i>A. Corbiensis</i> , <i>Moore</i> .         | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 11, f. 7.                                                                                                           | Wollumbilla, <i>Qu.</i>                              |
| <i>A. echinata</i> , <i>J. Sow.</i>           | Cornbrash?  | *Min. Con. iii. p. 75, t. 243; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.                                                                           | <i>W. Australia.</i>                                 |
| <i>A. Hughendenensis</i> , <i>Etheridge</i> . | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 346, t. 25, f. 3.                                                                                                         | Hughenden Station, <i>Qu.</i>                        |
| <i>A. inæquivalvis</i> , <i>J. Sowerby</i> .  | Oolite.     | *Min. Con. iii. p. 78, t. 244, f. 2; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.                                                                     | <i>W. Australia.</i>                                 |
| <i>A. Munsteri</i> , <i>Bronn</i> .           | Oolite.     | <i>Goldfuss</i> , *Petrefacta, ii. p. 131, t. 118, f. 2; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232; <i>Clarke</i> , <i>ibid.</i> 1867, xxiii. p. 9. | 15 miles north of Champion Bay, <i>W. Australia.</i> |
| <i>A. reflecta</i> , <i>Moore</i> .           | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 12, f. 1.                                                                                                           | Wollumbilla, <i>Qu.</i>                              |
| <i>A. simplex</i> , <i>Moore</i> .            | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 3.                                                                                                           | Wollumbilla, <i>Qu.</i>                              |
| <i>A. substriata</i> , <i>Moore</i> .         | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 6.                                                                                                           | Wollumbilla, <i>Qu.</i>                              |
| <i>A. umbonalis</i> , <i>Moore</i> .          | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 12, figs. 2 and 3.                                                                                                  | Wollumbilla, <i>Qu.</i>                              |

Genus *Crenatula*, *Lamarck*, 1804. (Ann. Muséum, iii. p. 28; Hist. Nat. Anim. s. Vertéb. 1819, vi. pt. 1, p. 136).—*Mytilacea-Aviculidæ*.

|                                          |             |                                                             |                         |
|------------------------------------------|-------------|-------------------------------------------------------------|-------------------------|
| <i>C. ? gibbosa</i> , <i>Etheridge</i> . | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 339, t. 19, f. 3. | Maryborough, <i>Qu.</i> |
|------------------------------------------|-------------|-------------------------------------------------------------|-------------------------|

Genus *Cucullæa*, *Lamarck*, 1801. (Système, p. 116).—*Arcacea-Arcidæ*.

|                                        |             |                                                                    |                                      |
|----------------------------------------|-------------|--------------------------------------------------------------------|--------------------------------------|
| <i>C. costata</i> , <i>Etheridge</i> . | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 340, t. 20, f. 2.        | Maryborough, <i>Qu.</i>              |
| <i>C. inflata</i> , <i>Moore</i> .     | Oolite.     | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 14, figs. 1 and 2. | Greenough Dist. <i>W. Australia.</i> |

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                          | Strat. Subdivision. | References.                                                                                                                                                      | Localities, &c.                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <i>C. oblonga</i> , <i>J. Sow.</i>                                                                                                                                          | Oolite.             | *Min. Con. III. p. 7, t. 206, figs. 1 and 2; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.                                                                  | W. Australia.                                                           |
| <i>C. robusta</i> , <i>Ethe-ridge</i> .                                                                                                                                     | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 340, t. 20, f. 1.                                                                                                      | Maryborough, Qu.                                                        |
| <i>C. semistriata</i> , <i>Moore</i> .                                                                                                                                      | Oolite.             | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 14, f. 3.                                                                                                        | Greenough Dist. W. Australia.                                           |
| Genus <i>Cytherea</i> , <i>Lamarck</i> , 1806. (Ann. du Muséum, VII. p. 132.)— <i>Veneracea-Veneridae</i> .                                                                 |                     |                                                                                                                                                                  |                                                                         |
| <i>C. Clarkei</i> , <i>Moore</i> .                                                                                                                                          | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 13, f. 1.                                                                                                        | Wollumbilla; Maranoa River; Gregory River, north of Finnis Springs, Qu. |
| <i>C. gibbosa</i> , <i>Moore</i> .                                                                                                                                          | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 251.                                                                                                                     | Wollumbilla, Qu.                                                        |
| Genus <i>Cyprina</i> , <i>Lamarck</i> , 1812. (Cours de Zoologie!; Hist. d. Anim. s. Vertèb. 1818, v. pp. 556 and 566.)— <i>Veneracea-Cyprinidae</i> <sup>1</sup> .         |                     |                                                                                                                                                                  |                                                                         |
| <i>C. expansa</i> , <i>Ethe-ridge</i> .                                                                                                                                     | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 338, t. 19, f. 1.                                                                                                      | Maryborough, Qu.                                                        |
| Sub-genus <i>Goniomya</i> <sup>2</sup> , <i>Agassiz</i> (1838, ms.), 1842 (Études Crit. Mon. Myes. 1842—45, p. 1)= <i>Lysianassa</i> , Münster.— <i>Myacea-Anatinidae</i> . |                     |                                                                                                                                                                  |                                                                         |
| <i>G. depressa</i> , <i>Moore</i> .                                                                                                                                         | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 13, f. 6.                                                                                                        | Wollumbilla, Qu.                                                        |
| Sub-genus <i>Gresslya</i> , <i>Agassiz</i> , 1842. (Études Crit. Mon. Myes. 1842—45, p. 202.) <i>Myacea-Anatinidae</i> .                                                    |                     |                                                                                                                                                                  |                                                                         |
| <i>G. donaciformis</i> , <i>Phillips</i> .                                                                                                                                  | Up. Lias.           | <i>Amphidesma</i> , *Geol. York. 1829, I. p. 161, t. 12, f. 5; <i>Gresslya</i> , Ag. l. c. p. 232; <i>id.</i> Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232. | W. Australia.                                                           |
| Sub-genus <i>Homomya</i> , <i>Agassiz</i> , 1842 or 1843? (Études Crit. Mon. Myes. 1842—45, p. 154.) <i>Myacea-Anatinidae</i> .                                             |                     |                                                                                                                                                                  |                                                                         |
| <i>H.?</i> <i>sp. ind.</i>                                                                                                                                                  | L. Oolite.          | Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 5.                                                                                           | Gordon Downs, Qu.                                                       |

<sup>1</sup> The term *Cyprinidae* having been long ago used in Ichthyology, Dr Stoliczka proposed to adopt in its place that of *Glossidae*, Gray (*Pal. Indica*, III. p. 183).

<sup>2</sup> According to Bronn, this name was first used by Agassiz in 1836, but according to Agassiz's own statement, it first appeared attached to certain plates of his "Études Critiques," submitted to the Geological Section of the meeting of Swiss Naturalists at Basle in 1838. It also appeared during this year in a paper by M. Gressly, "Observations Géologiques sur le Jura Soleurois" (*Nouv. Mém. Soc. Helvétique des Sci. Nat. Neuchâtel*), but appears to have been first definitely described in 1842 (*Études Crit.* p. 1). *Goniomya* is synonymous with *Lysianassa*, Münster, 1838 (*N. Jahrbuch*, 1838, p. 55), but the latter, according to Bronn, had already been used for a genus of Crustacea by Milne-Edwards.

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                          | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                       | Localities, &c.                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Genus <i>Inoceramus</i> <sup>1</sup> ( <i>J. Sowerby</i> , 1814, ms.), <i>Parkinson</i> , 1819 (see p. 70).<br><i>Mytilacea-Aviculidæ</i> . |                     |                                                                                                                                                                                                                                                                                   |                                                                      |
| <i>I. Carsoni</i> , <i>M'Coy</i> .                                                                                                          | Cretaceous.         | <i>Annals Nat. Hist.</i> 1865, xvi. p. 334; * <i>Trans. Roy. Soc. Vict.</i> 1866, vii. p. 50; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; ? <i>Sp. allied to I. problematicus</i> (d'Orb.), <i>Etheridge</i> , * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 344, t. 22, f. 4. | Base of Walker's Table Mounts, Flinders River; Marathon Station, Qu. |
| <i>I. Marathonensis</i> , <i>Etheridge</i> .                                                                                                | Cretaceous.         | * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 343, t. 22, f. 1.                                                                                                                                                                                                               | Marathon Station, Flinders R. Qu.                                    |
| <i>I. multiplicatus</i> , <i>Stoliczka</i> .                                                                                                | Cretaceous.         | * <i>Pal. Indica</i> , iii. p. 406, t. 28, f. 1; var. <i>elongatus</i> , <i>Etheridge</i> , * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 343, t. 22, f. 2.                                                                                                                   | Marathon Station, Flinders R. Qu.                                    |
| <i>I. pernoides</i> , <i>Etheridge</i> .                                                                                                    | Cretaceous.         | * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 343, t. 22, f. 3.                                                                                                                                                                                                               | Marathon Station, Qu.                                                |
| <i>I. Sutherlandi</i> , <i>M'Coy</i> .                                                                                                      | Cretaceous.         | <i>Annals Nat. Hist.</i> 1865, xvi. p. 334; * <i>Trans. Roy. Soc. Vict.</i> 1866, vii. p. 50; <i>Annals Nat. Hist.</i> 1867, xx. p. 196.                                                                                                                                          | Base of Walker's Table Mounts, Flinders R. Qu.                       |

Genus *Leda*, *Schumacher*, 1817. (*Essai d'une Nouv. Syst. Habit.* p. 172.)  
Vide *Nuculana*, *Link*.

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| <i>L. Australis</i> , <i>Moore</i> .    | Vide <i>Nuculana Australis</i> . |
| <i>L. elongata</i> , <i>Etheridge</i> . | Vide <i>Nuculana elongata</i> .  |

Genus *Lima*<sup>2</sup>, *Bruguière*, 1789 or 1791? (*Tab. Encycl. Méthod.* pl. 206; *Lamarck*, *Système*, 1801, p. 136.)—*Ostracea-Radulidæ*.

|                                                 |             |                                                                                                                                                               |                  |
|-------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <i>L. duplicata</i> , <i>J. de C. Sowerby</i> . | Oolite.     | * <i>Min. Con.</i> vi. p. 114, t. 559, f. 3; <i>Moore</i> , <i>Quart. Jour. Geol. Soc.</i> 1870, xxvi. p. 232.                                                | W. Australia.    |
| <i>L. Gordonii</i> , <i>Moore</i> .             | Up. Oolite. | * <i>Quart. Jour. Geol. Soc.</i> 1870, xxvi. p. 247, t. 12, f. 4.                                                                                             | Wollumbilla, Qu. |
| <i>L. multistriata</i> , <i>Moore</i> .         | Up. Oolite. | * <i>Quart. Jour. Geol. Soc.</i> 1870, xxvi. p. 248, t. 12, f. 5.                                                                                             | Wollumbilla, Qu. |
| <i>L. proboscidea</i> , <i>J. Sowerby</i> .     | Oolite.     | * <i>Min. Con.</i> iii. p. 115, t. 264; <i>Clarke</i> , <i>Quart. Jour. Geol. Soc.</i> 1867, xxiii. p. 8; <i>Moore</i> , <i>ibid.</i> 1870, xxvi. pp. 230—32. | W. Australia.    |
| <i>L. punctata</i> , <i>J. Sow.</i>             | Oolite.     | <i>Plagiostoma</i> , * <i>Min. Con.</i> ii. p. 25, t. 113, f. 1 and 2; <i>Lima</i> , <i>Moore</i> , <i>Quart. Jour. Geol. Soc.</i> 1870, xxvi. p. 232.        | W. Australia.    |

<sup>1</sup> In a collection of fossils forwarded to England by Mr W. Hann, from the Barcoo River, fifty miles below its junction with the Alice River, Mr Etheridge, F.R.S., recognized *Inocerami* having the general facies of British gault forms (*Quart. Jour. Geol. Soc.* 1872, xxviii. p. 183).

<sup>2</sup> It appears that the generic name *Lima* must give way to that of *Radula*, *Klein*, 1753 (*Tent. Meth. Ostrac.* p. 135), which has precedence (see *Stoliczka*, *Pal. Indica*, iii. p. 412).

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                                                | Strat. Subdivision. | References.                                                                                                                                     | Localities, &c.                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Genus <b>Lucina</b> , <i>Bruguère</i> , 1792. (Tab. Encycl. Méthod. pl. 284—86; Lamarck, Prodrome, p. 84, <i>id.</i> Système, 1801, p. 124; <i>id.</i> Histoire, 1818, v. p. 538.)<br><i>Lucinacea-Lucinidæ</i> . |                     |                                                                                                                                                 |                                      |
| <i>L. anomala</i> , <i>Moore</i> .                                                                                                                                                                                | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 14, f. 4.                                                                                       | Wollumbilla, Qu.                     |
| <i>L.?</i> <i>Australis</i> , <i>Moore</i> .                                                                                                                                                                      | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 14, f. 5.                                                                                       | Wollumbilla, Qu.                     |
| Genus <b>Mactra</b> , <i>Linnæus</i> , 1767. (Systema, ed. 12, pt. 2, 1125; Lamarck, Système, 1801, p. 121; <i>id.</i> Histoire, 1818, v. p. 471.)— <i>Myacea-Mactridæ</i> .                                      |                     |                                                                                                                                                 |                                      |
| <i>M. trigonalis</i> , <i>Moore</i> .                                                                                                                                                                             | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 14, f. 6.                                                                                       | Nive River Downs, Qu.                |
| Genus <b>Melina</b> , <i>Retzius</i> , 1788 (Dissert. Hist. Nat.! Stoliczka, Pal. Indica, iii. p. 395) = <i>Perna</i> , <i>Bruguère</i> (non Adanson, nec Retzius).— <i>Mytilacea-Aviculidæ</i> .                 |                     |                                                                                                                                                 |                                      |
| <i>M. gigantea</i> , <i>Moore</i> .                                                                                                                                                                               | Up. Oolite.         | <i>Perna</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249.                                                                                     | Wollumbilla, Qu.                     |
| Genus <b>Modiola</b> , <i>Lamarck</i> , 1799 (see p. 71).— <i>Mytilacea-Mytilidæ</i> .                                                                                                                            |                     |                                                                                                                                                 |                                      |
| <i>M. unica</i> , <i>Moore</i> .                                                                                                                                                                                  | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 5.                                                                                       | Wollumbilla, Qu.                     |
| Genus <b>Mya</b> , <i>Linnæus</i> , 1758. (Systema, ed. 10, p. 670; Lamarck, Prodrome, 1799, p. 83.)<br><i>Myacea-Myidæ</i> .                                                                                     |                     |                                                                                                                                                 |                                      |
| <i>M. Maccoyi</i> , <i>Moore</i> .                                                                                                                                                                                | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 8.                                                                                       | Between Amby and Maranoa Rivers, Qu. |
| Genus <b>Myacites</b> , <i>Schlotheim</i> , 1820 (Petrefactenkunde, p. 176; Stoliczka, Pal. Indica, iii. p. 67) = <i>Pleuromya</i> , <i>Agassiz</i> . <i>Myacea-Anatinidæ</i> .                                   |                     |                                                                                                                                                 |                                      |
| <i>M. Liassianus</i> , <i>Quenstedt</i> .                                                                                                                                                                         | Mid. Lias?          | <i>M. liasinus</i> , *Der Jura, 1858, p. 81, t. 10, f. 3; <i>M. Liassianus</i> , <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. pp. 229—32. | W. Australia.                        |
| <i>M. planus</i> , <i>Moore</i> .                                                                                                                                                                                 | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 10.                                                                                      | Wollumbilla, Qu.                     |
| <i>M. Sandfordii</i> , <i>Moore</i> .                                                                                                                                                                             | Inf. Oolite.        | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 9.                                                                                       | Greenough Dist. W. Australia.        |
| <i>M.?</i> <i>sp. ind.</i>                                                                                                                                                                                        | L. Oolite.          | Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 348, t. 25, f. 7.                                                                          | Gordon Downs, Qu.                    |

Genus **Mytilus**<sup>1</sup>, *Linnæus*, 1758 (see p. 72) = *Perna*, *Adanson*, 1757.  
*Mytilacea-Mytilidæ*.

|                                     |             |                                                           |                  |
|-------------------------------------|-------------|-----------------------------------------------------------|------------------|
| <i>M. inflatus</i> , <i>Moore</i> . | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 4. | Wollumbilla, Qu. |
|-------------------------------------|-------------|-----------------------------------------------------------|------------------|

<sup>1</sup> The generic name *Mytilus* should give place to that of *Perna*, *Adanson*, 1757 (*Voy. au Sénégal*, p. 217). It is not the *Perna* of *Bruguère*.

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.              | Strat. Subdivision. | References.                                               | Localities, &c.  |
|---------------------------------|---------------------|-----------------------------------------------------------|------------------|
| <i>M. planus</i> , Moore.       | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 3. | Wollumbilla, Qu. |
| <i>M. rugocostatus</i> , Moore. | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 2. | Wollumbilla, Qu. |

Genus *Nucula*, Lamarck, 1799 (see p. 73).—*Arcacea-Nuculidæ*.

|                                 |             |                                                                          |                  |
|---------------------------------|-------------|--------------------------------------------------------------------------|------------------|
| <i>N. Cooperi</i> , Moore.      | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 8.                | Wollumbilla, Qu. |
| <i>N. gigantea</i> , Etheridge. | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 4.              | Maryborough, Qu. |
| <i>N. quadrata</i> , Etheridge. | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 19, f. 5, t. 20, f. 3. | Maryborough, Qu. |
| <i>N. truncata</i> , Moore.     | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 9.                | Wollumbilla, Qu. |

Genus *Nuculana*, Link, 1807 (see p. 74).—*Arcacea-Nuculanidæ*.

|                                 |             |                                                                          |                  |
|---------------------------------|-------------|--------------------------------------------------------------------------|------------------|
| <i>N. Australis</i> , Moore.    | Up. Oolite. | <i>Leda</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 12, f. 7.   | Wollumbilla, Qu. |
| <i>N. elongata</i> , Etheridge. | Cretaceous. | <i>Leda</i> , Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 5. | Maryborough, Qu. |

Genus *Ostrea*, Linnaeus, 1758. (Systema, ed. 10, p. 696).—*Ostracea-Ostreidæ*.

|                             |         |                                                                                                                                    |                                                                |
|-----------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <i>O. Marshii</i> , J. Sow. | Oolite. | *Min. Con. i. p. 103, t. 48; Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. pp. 8 and 9; Moore, <i>ibid.</i> 1870, xxvi. pp. 230—32. | Greenough Dist., 15 miles north of Champion Bay, W. Australia. |
|-----------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

Genus *Panopæa*, Ménéard de la Groye, 1807. (Ann. Muséum, ix. p. 135; Stoliczka, Pal. Indica, iii. p. 85).—*Myacea-Myacidæ*.

|                                       |             |                                                                                                                                                                |                                               |
|---------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <i>P. plicata</i> , J. de C. Sowerby. | Cretaceous. | <i>Mya</i> , *Min. Con. v. p. 20, t. 419, f. 3; <i>P. plicata</i> , var. <i>acuta</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 3. | Pelican Creek, Qu.                            |
| <i>P. rugosa</i> , Moore.             | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 7.                                                                                                      | Bungeeworgorai Ck., near Mount Abundance, Qu. |
| <i>P. sulcata</i> , Etheridge.        | Cretaceous. | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 2.                                                                                                    | Maryborough, Qu.                              |

Genus *Pecten*, O. F. Müller, 1776 (see p. 76).—*Ostracea-Pectinidæ*.

|                                   |             |                                                                                               |                  |
|-----------------------------------|-------------|-----------------------------------------------------------------------------------------------|------------------|
| <i>P. ? æquilineatus</i> , Moore. | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 11.                                    | Wollumbilla, Qu. |
| <i>P. calvus</i> , Goldfuss.      | Oolite.     | *Petrefacta, ii. p. 74, t. 99, f. 1; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232. | W. Australia.    |

## (Pelecypoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                                                                                                              | Strat. Subdivision. | References.                                                                                                                                                         | Localities, &c.               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <i>P. cinctus</i> , <i>J. Sow.</i>                                                                                                                                                                                                                                              | Oolite.             | *Min. Con. iv. p. 96, t. 371; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232.                                                                              | W. Australia.                 |
| <i>P. fimbriatus</i> , <i>Moore</i> <sup>1</sup> .                                                                                                                                                                                                                              | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 8.                                                                                                           | Wollumbilla, Qu.              |
| <i>P. Greenoughiensis</i> , <i>Moore.</i>                                                                                                                                                                                                                                       | Oolite.             | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 10.                                                                                                          | Greenough Dist. W. Australia. |
| <i>P. socialis</i> , <i>Moore.</i>                                                                                                                                                                                                                                              | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 9.                                                                                                           | Wollumbilla, Qu.              |
| <p>Genus <b>Perna</b>, <i>Bruguère</i>, 1789 or 1791? (Tab. Encyclop. Méthod. pls. 175, 176; Encyclop. Méthod. 1792, i. p. xiii.; Lamarek, Système, 1801, p. 134; <i>id.</i> Histoire, 1819, vi. pt. 1, p. 138), non Retzius, nec Adanson.<br/>Vide <i>Melina</i>, Retzius.</p> |                     |                                                                                                                                                                     |                               |
| <i>P. gigantea</i> , <i>Moore.</i>                                                                                                                                                                                                                                              |                     | Vide <i>Melina gigantea</i> .                                                                                                                                       |                               |
| <p>Genus <b>Pholadomya</b>, <i>G. B. Sowerby</i>, 1823 (see p. 76).—<i>Myacea-Anatinidæ</i>.</p>                                                                                                                                                                                |                     |                                                                                                                                                                     |                               |
| <i>P. ovulum</i> , <i>L. Agassiz.</i>                                                                                                                                                                                                                                           | Oolite.             | Études Crit. Mon. Myes. p. 119, t. 3, figs. 7—9; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232.                                                           | W. Australia.                 |
| <i>P. sp. ind.</i>                                                                                                                                                                                                                                                              | L. Oolite.          | Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 6.                                                                                              | Gordon Downs, Qu.             |
| <p>Genus <b>Pholas</b>, <i>Linnaeus</i>, 1758. (Systema, ed. 10, i. p. 669).—<i>Pholadacea-Pholadidæ</i>.</p>                                                                                                                                                                   |                     |                                                                                                                                                                     |                               |
| <i>P. Australis</i> , <i>Clarke.</i>                                                                                                                                                                                                                                            |                     | Vide <i>Teredo Australis</i> , <i>Moore.</i>                                                                                                                        |                               |
| <p>Genus <b>Tancredia</b>, <i>Lycett</i>, 1850 (Annals Nat. Hist. vi. p. 407; Stoliczka, Pal. Indica, iii. p. 132)=<i>Hettangia</i>, <i>Terquem</i>, 1850.—<i>Tellinacea-Donacidæ</i>.</p>                                                                                      |                     |                                                                                                                                                                     |                               |
| <i>T. plana</i> , <i>Moore.</i>                                                                                                                                                                                                                                                 | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 13, f. 13.                                                                                                          | Blythesdale, Qu.              |
| <i>T. sp. ind.</i>                                                                                                                                                                                                                                                              | L. Oolite.          | Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 348, t. 25, f. 8.                                                                                              | Gordon Downs, Qu.             |
| <p>Genus <b>Tellina</b>, <i>Adanson</i>, 1757. (Voy. Sénégal, p. 234; <i>Linnaeus</i>, Systema, ed. 10, 1758, p. 674; <i>Lamarek</i>, Prodrome, 1799, p. 84; <i>id.</i> Système, 1801, p. 124; <i>id.</i> Histoire, 1818, v. p. 519).—<i>Tellinacea-Tellinidæ</i>.</p>          |                     |                                                                                                                                                                     |                               |
| <i>T. Mariæburiensis</i> , <i>Etheridge.</i>                                                                                                                                                                                                                                    | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 6.                                                                                                         | Maryborough, Qu.              |
| <i>T. sp. ind.</i>                                                                                                                                                                                                                                                              | Cretaceous.         | Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 7.                                                                                              | Maryborough, Qu.              |
| <p>Genus <b>Teredo</b>, <i>Linnaeus</i>, 1758. (Systema, ed. 10, p. 651; <i>Lamarek</i>, Système, 1801, p. 128; <i>id.</i> Histoire, 1818, v. p. 438).—<i>Pholadacea-Pholadidæ</i>.</p>                                                                                         |                     |                                                                                                                                                                     |                               |
| <i>T. Australis</i> , <i>Moore.</i>                                                                                                                                                                                                                                             | Oolite.             | <i>Pholas</i> , <i>Clarke</i> , Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; <i>Teredo</i> , <i>Moore</i> , * <i>ibid.</i> 1870, xxvi. pp. 230 and 255, t. 12, f. 11. | W. Australia.                 |

<sup>1</sup> Non *Pecten* (*Aviculopecten*) *fimbriatus*. *Phill.*



## (Pelecypoda—Gasteropoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Genus <b>Thracia</b> (Leach, 1819, ms.), <i>Blainville</i> , 1824. (Dict. Sci. Nat. xxxii. p. 347; Man. de Malacol. 1825, i. p. 564.)— <i>Myacea-Anatinidæ</i> .                  |                     |                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <b>T. Wilsoni</b> , Moore.                                                                                                                                                        | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 14, f. 8.                                                                                                                                                                                                                                                                                                                                | Amby River; Bungeeworgorai Ck. Qu. |
| Genus <b>Trigonia</b> , <i>Bruguère</i> , 1789. (Encyc. Méthod. i. pl. xiv.; Lamarck, Système, p. 116; <i>id.</i> Histoire, 1819, vi. pt. 1, p. 61.)— <i>Arcacea-Trigoniadæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <b>T. costata</b> , Clarke (non Park.).                                                                                                                                           |                     | Vide <i>T. Moorei</i> , Lycett.                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <b>T. lineata</b> , Moore.                                                                                                                                                        | Up. Oolite.         | <i>Myophoria</i> , sp. M'Coy (1861), Trans. Roy. Soc. Vict. 1865, vi. p. 44; <i>id. ibid.</i> Exhib. Essay, 1861, p. 167; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 144; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1862, xviii. p. 245; <i>id.</i> M'Coy, Annals Nat. Hist. 1867, xx. p. 198. <i>Trigonia</i> , Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 255, t. 13, f. 12. | Wollumbilla, Qu.                   |
| <b>T. Moorei</b> , Lycett.                                                                                                                                                        | Oolite.             | <i>Trigonia</i> , sp. Gregory, Quart. Jour. Geol. Soc. 1861, xvii. p. 483. <i>T. costata</i> , Clarke (non Parkinson), Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; <i>T. Moorei</i> (Lycett), Moore, * <i>ibid.</i> 1870, xxvi. pp. 227, 231, 232, and 254, t. 14, figs. 9 and 10.                                                                                                        | Greenough River, W. Australia.     |
| <b>T. nasuta</b> , Etheridge.                                                                                                                                                     | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 339, t. 19, f. 2.                                                                                                                                                                                                                                                                                                                              | Maryborough, Qu.                   |
| Genus <b>Unio</b> , <i>Retzius</i> , 1788. (Dissertatio Hist. Nat. p. 16.)— <i>Unionacea—Unionidæ</i> .                                                                           |                     |                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
| <b>U. Dacombii</b> , M'Coy.                                                                                                                                                       | L. Mesozoic.        | Selwyn, Ex. Essay Geol. Survey Vict. 1861, p. 186; Phys. Geogr. Geol. and Mineral. Vict. 1866, p. 20; Descript. Cat. Nat. Mus. Geol. Survey, Vict. 1868, p. 49; M'Coy, Smyth's Progress Rept. 1874, pp. 24 and 35; ? <i>U. Daintreei</i> , Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 10.                                                                                           | Wannon District, Vict.             |

## Class—Gasteropoda.

|                                                                                                                                                                                      |             |                                                            |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|------------------|
| Genus <b>Actæon</b> , <i>de Montfort</i> , 1810. (Conch. Systématique, ii. p. 315; Adams, Genera, 1854, ii. p. 4)= <i>Tornatella</i> , Lamarck, 1812.— <i>Opisthobr.-Actæonidæ</i> . |             |                                                            |                  |
| <b>A. depressus</b> , Moore.                                                                                                                                                         | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 20. | Wollumbilla, Qu. |
| <b>A. Hochstetteri</b> , Moore.                                                                                                                                                      | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 19. | Wollumbilla, Qu. |

## (Gasteropoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                                                                                                | Strat. Subdivision. | References.                                                                                                                    | Localities, &c.               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Genus <b>Cerithium</b> , <i>Adanson</i> , 1757. (Voy. Sénégal, p. 152; Lamarek, 1799, Prodrôme, p. 73; <i>id.</i> Systema, p. 85; <i>id.</i> Histoire, 1822, vii. p. 63; Adams, Genera, 1854, i. p. 284.)— <i>Prosobr.-Cerithiidae</i> .                          |                     |                                                                                                                                |                               |
| <i>C. Greenoughiensis</i> , <i>Moore</i> .                                                                                                                                                                                                                        | Oolite.             | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 22.                                                                     | Greenough Dist. W. Australia. |
| Genus <b>Delphinula</b> , <i>Lamarck</i> , 1804. (Ann. du Muséum, iv. p. 108; <i>id.</i> Histoire, 1822, vi. p. 229; Stoliczka, Pal. Indica, ii. p. 368.)— <i>Prosobr.-Trochidae</i> .                                                                            |                     |                                                                                                                                |                               |
| <i>D. reflecta</i> , <i>Moore</i> .                                                                                                                                                                                                                               | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 21.                                                                     | Wollumbilla, Qu.              |
| Genus <b>Dentalium</b> , <i>Linnaeus</i> , 1758 (see p. 81).— <i>Prosobr.-Dentaliidae</i> .                                                                                                                                                                       |                     |                                                                                                                                |                               |
| <i>D. lineatum</i> , <i>Moore</i> .                                                                                                                                                                                                                               | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256.                                                                                   | Wollumbilla, Qu.              |
| Genus <b>Natica</b> , <i>Adanson</i> , 1757. (Voy. Sénégal, p. 172; Lamarek, 1799, Prodrôme, p. 77; <i>id.</i> Système, 1801, p. 95; <i>id.</i> Histoire, 1822, vi. pt. 2, p. 195; Adams, Genera, 1858, i. p. 204.)— <i>Prosobr.-Naticidae</i> .                  |                     |                                                                                                                                |                               |
| <i>N. lineata</i> , <i>Etheridge</i> .                                                                                                                                                                                                                            | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 1.                                                                    | Maryborough, Qu.              |
| <i>N. ornatissima</i> , <i>Moore</i> .                                                                                                                                                                                                                            | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, f. 16.                                                                     | Wollumbilla, Qu.              |
| <i>N. variabilis</i> , <i>Moore</i> .                                                                                                                                                                                                                             | Up. Oolite.         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 15.                                                                     | Wollumbilla, Qu.              |
| Genus <b>Pleurotomaria</b> , <i>DeFrance</i> , 1824. (Tableau, p. 114; Dict. Sc. Nat. 1826, xli. p. 381; Adams, Genera, 1858, ii. p. 630.)— <i>Prosobr.-Pleurotomariidae</i> .                                                                                    |                     |                                                                                                                                |                               |
| <i>P. Cliftoni</i> , <i>Etheridge</i> .                                                                                                                                                                                                                           | Oolite.             | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 4.                                                                    | Gordon Downs, Qu.             |
| Genus <b>Rissoina</b> , <i>d'Orbigny</i> , 1840. (Moll. d'Antill. ii. !; Adams, Genera, 1854, i. p. 327; Stoliczka, Pal. Indica, ii. p. 279.)— <i>Prosobr.-Rissoidae</i> .                                                                                        |                     |                                                                                                                                |                               |
| <i>R. Australis</i> , <i>Moore</i> .                                                                                                                                                                                                                              |                     | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, f. 23.                                                                     | Greenough Dist. W. Australia. |
| Genus <b>Turbo</b> (pars), <i>Linnaeus</i> , 1758 <sup>1</sup> . (Systema, ed. 10, p. 761; Lamarek, Prodrôme, 1799, p. 74; <i>id.</i> Système, 1801, p. 86; <i>id.</i> Histoire, 1822, vii. p. 38; Adams, Genera, 1854, i. p. 391.)— <i>Prosobr.-Turbinidae</i> . |                     |                                                                                                                                |                               |
| <i>T. Australis</i> , <i>Moore</i> .                                                                                                                                                                                                                              | Oolite.             | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, figs. 17 and 18.                                                           | Greenough Dist. W. Australia. |
| <i>T. lævigatus</i> , <i>J. Sowerby</i> .                                                                                                                                                                                                                         | Oolite.             | <i>Nerita</i> , *Min. Con. iii. p. 31, t. 217, f. 1; <i>Turbo</i> , <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232. | Greenough Dist. W. Australia. |

<sup>1</sup> The name was used by Klein, in 1753, but apparently in a much more extended sense (*Tent. Meth. Ostrac.* pt. 1, p. 46).

## (Cephalopoda.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                                               | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                          | Localities, &c.                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <i>Class—Cephalopoda.</i>                                                                                                                                                                                        |                      |                                                                                                                                                                                                                                                                                                                                                      |                                                                              |
| Genus <b>Ammonites</b> , <i>Bruguière</i> , 1789. (Encycl. Méth. i. p. 28; Lamarek, Prodrôme, 1799, p. 79; <i>id.</i> Système, 1801, p. 100; Histoire, 1822, vii. p. 635.)<br><i>Tetrabranchiata-Ammonitidæ.</i> |                      |                                                                                                                                                                                                                                                                                                                                                      |                                                                              |
| <i>A. Aalensis</i> , <i>Zieten</i> .                                                                                                                                                                             | Up. Lias.            | *Pet. Wurttemb. 1830, p. 37, t. 28, f. 3; d'Orbigny, Pal. Franç. Terr. Jura. i. p. 258, t. 63 (as <i>A. Aalensis</i> ); <i>A. Moorei</i> (Lycett), Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 9; <i>A. Aalensis</i> , var. <i>Moorei</i> (Lycett), Moore, * <i>ibid.</i> 1870, xxvi. pp. 230 and 232, t. 15, f. 1.                              | Greenough Dist.<br><i>W. Australia.</i>                                      |
| <i>A. Broccii</i> , <i>J. Sow.</i>                                                                                                                                                                               | Inf. Oolite.         | *Min. Con. ii. p. 233, t. 202; Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. pp. 230 and 232, t. 15, f. 4.                                                                                                                                                                                                                                             | Greenough Dist.<br><i>W. Australia.</i>                                      |
| <i>A. Daintreei</i> , <i>Etheridge</i> .                                                                                                                                                                         | L. Cretaceous.       | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 346, t. 24.                                                                                                                                                                                                                                                                                                | Hughenden Statn.<br><i>Qu.</i>                                               |
| <i>A. Flindersi</i> , <i>M'Coy</i> .                                                                                                                                                                             | Cretaceous.          | Annals Nat. Hist. 1865, xvi. p. 334; *Trans. Roy. Soc. Vict. 1866, vii. p. 51; Annals Nat. Hist. 1867, xx. p. 196; ? <i>A. Beudanti</i> , var. <i>Mitchelli</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 345, t. 23.                                                                                                                   | Base of Walker's Table Mounts, Flinders River; Hughenden Station, <i>Qu.</i> |
| <i>A. macrocephalus</i> , <i>Schlotheim</i> .                                                                                                                                                                    |                      | Leonhard's Min. Taschenbuch, 1813, viii. p. 70; *Petrefacten, 1820, i. p. 70; Zieten, Pet. Wurttemb. 1830, p. 6, t. 5, f. 1 and 4; d'Orbigny, *Pal. Franç. Terr. Jura. 1848, i. p. 430, t. 151; Lycett and Morris, *Mon. Gt. Oolite, Moll. 1850, pt. 1, p. 12, t. 2, f. 3; Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. pp. 227 and 232, t. 15, f. 5. | Wizard Peak;<br>Greenough Dist.<br><i>W. Australia.</i>                      |
| <i>A. megaphyllus</i> , <i>Beyrich</i> .                                                                                                                                                                         | L. Mesozoic (Trias?) | Monatsb. K. Akad. Wissensch. Berlin, 1865, pp. 60, 66, and 70, f. 3; Abhandl. <i>ibid.</i> 1865, xxxvi. p. 70, t. 3, f. 1 a—c.<br>?Vide <i>A. Flindersi</i> , M'Coy.                                                                                                                                                                                 | Timor.                                                                       |
| <i>A. Mitchelli</i> , <i>Etheridge</i> .                                                                                                                                                                         |                      | Vide <i>A. Aalensis</i> .                                                                                                                                                                                                                                                                                                                            |                                                                              |
| <i>A. Moorei</i> , <i>Lycett</i> .                                                                                                                                                                               |                      |                                                                                                                                                                                                                                                                                                                                                      |                                                                              |
| <i>A. radians</i> , <i>Schlotheim</i> .                                                                                                                                                                          | Up. Lias.            | *Petrefacten, 1820, i. p. 78; Zieten, *Pet. d. Wurttemb. 1830, p. 5, t. 4, f. 3; d'Orbigny, Pal. Franç. Terr. Jura. i. p. 226, t. 59; Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; Moore, * <i>ibid.</i> 1870, xxvi. pp. 230 and 232, t. 15, f. 2.                                                                                             | Wizard Peak;<br>Greenough Dist.<br><i>W. Australia.</i>                      |

## (Cephalopoda.)

## (Mesozoic.)

| Genus and Species.                 | Strat. Subdivision. | References.                                                                              | Localities, &c.                  |
|------------------------------------|---------------------|------------------------------------------------------------------------------------------|----------------------------------|
| A. Sutherlandi, <i>Etheridge</i> . | Cretaceous.         | *Quart. Jour. Geol. Soc. 1872, xxviii. p. 345, t. 21, f. 4.                              | Queensland.                      |
| A. Walcottii, <i>J. Sow.</i>       | Up. Lias.           | *Min. Con. ii. p. 7, t. 106; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 230 and 232. | Greenough Dist.<br>W. Australia. |

Genus *Ancyloceras*, *d'Orbigny*, 1842. (Pal. Franç. Terr. Crét. i. pt. 2, p. 491.)  
*Tetrabranchiata-Ammonitidæ*.

|                              |             |                                      |                             |
|------------------------------|-------------|--------------------------------------|-----------------------------|
| A. Flindersi, <i>M. Coy.</i> | Cretaceous. | Annals Nat. Hist. 1867, xix. p. 356. | Head of Flinders River, Qu. |
|------------------------------|-------------|--------------------------------------|-----------------------------|

Genus *Belemnitella*, *d'Orbigny*, 1840. (Pal. Franç. Terr. Crét. i. p. 59.)

|                             |             |                                                                                                        |                             |
|-----------------------------|-------------|--------------------------------------------------------------------------------------------------------|-----------------------------|
| B. diptycha, <i>M. Coy.</i> | Cretaceous. | *Trans. Roy. Soc. Vict. viii. p. 42; Annals Nat. Hist. 1867, xix. p. 356; <i>ibid.</i> id. xx. p. 196. | Head of Flinders River, Qu. |
|-----------------------------|-------------|--------------------------------------------------------------------------------------------------------|-----------------------------|

Genus *Belemnites* (*G. Agricola*; *Lister*, 1678). *d'Orbigny*. Pal. Franç. Terr. Crét. 1840, i. p. 37; *Phillips*, Mon. Brit. Bel. 1865, pt. 1, p. 12.  
*Dibranchiata-Decapoda—Belemnitidæ*.

|                                              |             |                                                                                                                                                                                                                                                                                                        |                                                               |
|----------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| B. Australis, <i>Phill.</i>                  | Up. Oolite. | *Quart. Jour. Geol. Soc. 1870, xxvi. pp. 240 and 258, t. 16, figs. 1—5.                                                                                                                                                                                                                                | Up. Maranoa River, Qu.                                        |
| B. canaliculatus, <i>Schlotheim</i> .        | Oolite.     | *Petrefacten, 1820, i. p. 49; <i>Zieten</i> , *Pet. Wurtemb. 1830, p. 27, t. 21, f. 3 a—c; <i>d'Orbigny</i> , Pal. Franç. Terr. Crét. i. p. 108; t. 13, f. 1—5; <i>Clarke</i> , Quart. Jour. Geol. Soc. 1867, xxiii. p. 9; <i>Moore</i> , <i>ibid.</i> 1870, xxvi. pp. 227, 230, and 232, t. 16, f. 7. | 15 miles north of Champion Bay; Greenough Dist. W. Australia. |
| B. Barklyi, <i>Clarke</i> and <i>M. Coy.</i> |             | <i>Clarke</i> , Quart. Jour. Geol. Soc. 1862, xviii. p. 246; <i>M. Coy.</i> , Trans. Roy. Soc. Vict. 1865, vi. p. 43.                                                                                                                                                                                  | Wollumbilla, Qu.                                              |
| B. paxillosus, <i>Schlotheim</i> ?           |             | <i>Voltz</i> , *Obs. Belem. 1830, p. 50, t. 6, f. 2, t. 7, f. 2; <i>Phillips</i> , *Mon. Brit. Belem. 1866, pt. 2, p. 47, t. 6, f. 15; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 240, t. 16, f. 6.                                                                                         | Queensland.                                                   |

Genus *Crioceras*, *Leveillé*, 1837. (Mém. Soc. Géol. France, ii. p. 313; *d'Orbigny*, 1842, Pal. Franç. Terr. Crét. i. pt. 2, p. 457) = *Tropæum*, *J. Sowerby*.  
*Tetrabranchiata-Ammonitidæ*.

|                             |            |                                                           |                       |
|-----------------------------|------------|-----------------------------------------------------------|-----------------------|
| C. Australe, <i>Moore</i> . | Neocomian? | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 15, f. 3. | Up. Maranoa Dist. Qu. |
|-----------------------------|------------|-----------------------------------------------------------|-----------------------|

*Note.* A chalk Ammonite was obtained from the bed of the Greenough River, by Mr F. T. Gregory (*Moore*, l. c. p. 227). In the Daintree Collection, Mr Etheridge detected two or three species of *Belemnites* allied to British Oxford clay and Coral Rag forms (*Quart. Jour.* xxviii. p. 346).

## (Cephalopoda—Pisces.)

## (Mesozoic.)

| Genus and Species.                                                                                                                                                                                                    | Strat. Subdivision. | References.                                                                                                                                                         | Localities, &c.                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Genus <i>Nautilus</i> , <i>Brerynius</i> , 1732. (Dissert. de Polythal. pp. 12 and 14; Linnæus, 1758, <i>Systema</i> , ed. 10. p. 709; Lamarck, <i>Prodrome</i> , 1799, p. 79.)<br><i>Tetrabranchiata-Nautilidæ</i> . |                     |                                                                                                                                                                     |                                          |
| <i>N. semistriatus</i> ,<br><i>d'Orbigny</i> .                                                                                                                                                                        | Up. Lias.           | Pal. Franç. Terr. Jura. 1842, i. p. 149, t. 26; Clarke, <i>Quart. Jour. Geol. Soc.</i> 1867, <i>xxiii.</i> p. 8; Moore, <i>ibid.</i> 1870, <i>xxvi.</i> pp. 230—32. | Greenough Dist.<br><i>W. Australia</i> . |
| <i>N. sinuatus</i> , <i>Clarke</i> .                                                                                                                                                                                  |                     | <i>Quart. Jour. Geol. Soc.</i> <i>xxiii.</i> p. 8 (? = <i>N. sinuatus</i> , J. Sowerby, <i>Min. Con.</i> ii. p. 213, t. 194.)                                       | <i>W. Australia</i> .                    |
| Genus <i>Teuthis</i> ( <i>Aristotelis</i> ), <i>Schneider</i> , 1784. (Samml. Verm. p. 113; J. E. Gray, <i>Brit. Mus. Cat. Ceph.</i> pt. 1, 1849, p. 76.)— <i>Dibranchiata-Decapoda—Teuthidæ</i> .                    |                     |                                                                                                                                                                     |                                          |
| <i>T.?</i> <i>sp. ind.</i>                                                                                                                                                                                            | Up. Oolite.         | Moore, * <i>Quart. Jour. Geol. Soc.</i> 1870, <i>xxvi.</i> p. 258, t. 16, f. 8.                                                                                     | Wollumbilla, Qu.                         |

## Sub-kingdom—Vertebrata. Class—Pisces. Order—Ganoidei.

Genus *Cleithrolepis*, *Egerton*, 1864. (*Quart. Jour. Geol. Soc.* *xx.* p. 3.)

|                                         |                                                                       |                                                                                                                                                                                                                                                                                                                 |                                                   |
|-----------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <i>C. granulatus</i> , <i>Egerton</i> . | L. Mesozoic.<br>Wianamatta Series.<br>Hawkesbury Series of N.S.Wales. | * <i>l. c.</i> p. 3, t. 1, figs. 2 and 3; Davies and Barkas, <i>Geol. Mag.</i> 2nd ser. i. p. 549; Traquair, <i>Annals Nat. Hist.</i> 1875, <i>xv.</i> p. 265; Clarke, <i>Remarks Sed. Forms</i> , N. S. Wales, 3rd ed. 1875, p. 31; Lütken, <i>Palæontographica</i> , 1873, <i>xxii.</i> pt. 1, p. 29, note 2. | Cockatoo Island,<br>Hunter River,<br>N. S. Wales. |
|-----------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|

Genus *Myrioilepis*, *Egerton*, 1864 (*l. c.* p. 3; Traquair, *Mon. Ganoid Fishes*, 1877, p. 12.)  
*Palæoniscidæ*.

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|--------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <i>M. Clarkei</i> , <i>Egerton</i> . | L. Mesozoic.<br>Wianamatta Series.<br>Hawkesbury Series of N.S.Wales. | * <i>l. c.</i> p. 3, t. 1, f. 1; Davies and Barkas, <i>Geol. Mag.</i> 1874, 2nd ser. i. p. 551; Clarke, <i>Remarks Sed. Forms</i> , N. S. Wales, 3rd ed. 1875, p. 31. | Cockatoo Island;<br>Chapel Hill,<br>Campbeltown,<br>N. S. Wales. |
|--------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|

Genus *Palæoniscus*, *Agassiz*, 1833. (*Poiss. Foss.* ii. p. 41.)—*Palæoniscidæ*.

|                                         |                                                 |                                                                                                              |                                                    |
|-----------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <i>P. antipodeus</i> , <i>Egerton</i> . | L. Mesozoic.<br>Wianamatta Series of N.S.Wales. | * <i>l. c.</i> p. 4, t. 1, f. 4, and woodcut, Davies and Barkas, <i>Geol. Mag.</i> 1874, 2nd ser. i. p. 551. | Parsonage Hill,<br>near Paramatta,<br>N. S. Wales. |
|-----------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|

*Notes.* Mr F. T. Gregory recorded as fossils of secondary age, an *Ammonite* from Moresby's Range, an *Ammonite* from Mount Albert, and a *Pecten* from east of Wizard Peak.

A large Cephalopod, referable either to *Amyloceras* or *Crioceras* was detected by Mr Etheridge in the Daintree Collection (*Quart. Jour. Geol. Soc.* *xxviii.* p. 844).

## (Pisces—Enaliosauria.)

(Mesozoic.)

| Genus and Species.                                                                                                                      | Strat. Subdivision.                            | References.                                                                                                                                                                                                                                                                                                                        | Localities, &c.                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Genus <i>Urosthene</i> s, Dana, 1848. (American Jour. Sc. v. p. 433; Traquair, Mon. Ganoid Fishes, 1877, p. 12.)— <i>Palæoniscidæ</i> . |                                                |                                                                                                                                                                                                                                                                                                                                    |                                      |
| <i>U. Australis</i> , Dana.                                                                                                             | L. Mes. (Up. Coal M. of N.S. Wales ? = Trias). | *l. c. p. 434; *Geol. U. S. Expl. Expd. p. 681, Atlas, t. 1, f. 1; Clarke, Quart. Jour. Geol. Soc. 1861, xvii. p. 355; Egerton, l. c. p. 2; Davies and Barkas, Geol. Mag. 1874, 2nd ser. i. p. 553; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, pp. 31, 37; Mackenzie, Mines and Min. Stats. N. S. Wales, 1875, p. 216. | B. Coal-pit, Newcastle, N. S. Wales. |

## Class—Reptilia. Section—Enaliosauria.

Genus *Ichthyosaurus*, Kœnig, 1820? (Icon. Foss. Sectiles, t. 19, f. 250.)<sup>1</sup>  
*Ichthyopterygia*.

|                                           |             |                                                                                                                                                                                                                                |                             |
|-------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>I. Australis</i> , M <sup>c</sup> Coy. | Cretaceous? | *Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. 1867, xix. p. 355; <i>ibid.</i> id. xx. p. 196; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 228; M <sup>c</sup> Coy, Trans. R. Soc. Vict. 1869, ix. pt. 2, p. 77. | Head of Flinders River, Qu. |
|-------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|

Genus *Plesiosaurus*, Conybeare, 1821. (Trans. Geol. Soc. v. pt. 2, pp. 560 and 581.)  
*Sauropterygia*.

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|------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>P. macrospondylus</i> , M <sup>c</sup> Coy. | Cretaceous? | Annals Nat. Hist. 1867, xix. p. 356; *Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. xx. p. 196. | Head of Flinders River, Qu. |
| <i>P. Sutherlandi</i> , M <sup>c</sup> Coy.    | Cretaceous? | *Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. 1867, xix. p. 356; <i>ibid.</i> id. xx. p. 196.  | Head of Flinders River, Qu. |

*Fish*. With the Wollumbilla fossils, numerous fragments of fish teeth and scales occur, which are considered by Mr Moore to belong probably to the genera *Hybodus* and *Lepidotus* (Quart. Jour. Geol. Soc. xxvi. p. 238). In Mr Daintree's Cretaceous Collection, Mr Etheridge observed the remains of an *Aspidorhynchus* from Hughenden (*ibid.* xxviii. p. 346).

<sup>1</sup> Not described by Kœnig in this fragmentary work. It was described and figured, but not named by Home in the *Phil. Trans.* (1814, pp. 571—76, pl. 16).

TERTIARY.





## (Plantæ.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                               | Strat. Subdivision.             | References.                                                                                                                                                                                   | Localities, &c.                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <i>Kingdom—Plantæ. Section—Phanerogamia. Class—Dicotyledones.</i>                                                                                                                |                                 |                                                                                                                                                                                               |                                                                  |
| Genus <b>Acrocoila</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)— <i>Calycifloræ</i> .                                             |                                 |                                                                                                                                                                                               |                                                                  |
| <i>A. anodonta</i> , <i>F. v. Mueller</i> .                                                                                                                                      | Older G. D. (=M. Pliocene?).    | * <i>loc. cit.</i> p. 180.                                                                                                                                                                    | Gulgong, N. S. Wales.                                            |
| Genus <b>Banksia</b> , <i>Linnaeus (fil.)</i> , 1781 (Suppl. p. 15; R. Brown, Trans. Linn. Soc. x. p. 202), non Forster, 1776.— <i>Proteaceæ</i> .                               |                                 |                                                                                                                                                                                               |                                                                  |
| <i>B. sp. ind.</i>                                                                                                                                                               | Older G. D. (=M. Pliocene?).    | Redaway, Quart. Jour. Geol. Soc. 1858, xiv. p. 541; Murchison, Siluria, 4th ed. 1867, p. 462; Smyth, Progress Report, 1874, i. p. 30; <i>ibid.</i> 1875, ii. 28; <i>id.</i> 1876, iii. p. 48. | Creswick; Chiltern, Vict.                                        |
| Genus <b>Celyphina</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors, Regist. Vict. Sept. 1871, App. p. 40; Obs. New Veg. Fossils, 1874, p. 17.)— <i>Proteaceæ</i> .   |                                 |                                                                                                                                                                                               |                                                                  |
| <i>C. Maccoyi</i> , <i>F. v. Mueller</i> .                                                                                                                                       | Older G. D. (=M. Pliocene?).    | * <i>l. c.</i> p. 40, t. 5, figs. 1—7; *Obs. New Veg. Foss. Vict. 1874, p. 17, t. 5, figs. 1—7.                                                                                               | Haddon; Tangil R. Vict.                                          |
| Genus <b>Cinnamomum</b> , <i>J. Burman</i> , 1737. (Thes. Zeyl. p. 62, t. 27.)— <i>Lauraceæ</i> .                                                                                |                                 |                                                                                                                                                                                               |                                                                  |
| <i>C. polymorphoides</i> , <i>M'Coy</i> .                                                                                                                                        | M. Ter. (Miocene?).             | Smyth's Progress Report, 1874, p. 35; <i>ibid.</i> ii. 1875, p. 24; Couchman's <i>id.</i> 1877, iv. p. 17; *Geol. Survey, Vict. 1876, Dec. iv. p. 31, t. 40, f. 1—3.                          | Maddingly; Bacchus Marsh, Vict.                                  |
| Genus <b>Conchotheca</b> , <i>F. v. Mueller</i> , 1873. (Repts. Mining Surveyors, Regist. Vict. Sept. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 19.)— <i>Proteaceæ</i> ? |                                 |                                                                                                                                                                                               |                                                                  |
| <i>C. rotundata</i> , <i>F. v. Mueller</i> .                                                                                                                                     | Older G. D. (=M. Pliocene?).    | * <i>l. c.</i> p. 41, t. 6, figs. 9—11; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. p. 19, t. 6, figs. 9—11.                                                                   | Nintingbool, near Haddon, Vict.                                  |
| <i>C. turgida</i> , <i>F. v. Mueller</i> .                                                                                                                                       | Older G. D. (=M. Pliocene?).    | *Repts. Mining Surveyors, Regist. Vict. Sept. 1874, App. p. 42, t. 10, figs. 5—12; *Obs. New Veg. Foss. 1874, p. 24, t. 10, figs. 5—12; Smyth's Progress Report, 1876, iii. p. 80.            | Nintingbool, near Haddon; River Tangil, Vict. Darling Downs, Qu. |
| Genus <b>Daphnogenea</b> , <i>Unger</i> , 1845. (Synop. Plant. Foss. p. 227.)— <i>Thymelæaceæ</i> .                                                                              |                                 |                                                                                                                                                                                               |                                                                  |
| <i>D. sp. ind.</i>                                                                                                                                                               | U. Ter. ? (Bacchus Marsh beds). | Smyth, Mineral Statistics, Exhib. Essays, 1872, p. 15, note; Progress Report, 1875, ii. p. 24.                                                                                                | Bacchus Marsh, Vict.                                             |

## (Plantæ.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                               | Strat. Subdivision.           | References.                                                                                                                                    | Localities, &c.                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Genus <b>Dieune</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Vict. Sept. 1874, App. p. 41; Obs. New Veg. Fossils, p. 22.)— <i>Capparidaceæ</i> or <i>Pittosporaceæ</i> ? |                               |                                                                                                                                                |                                         |
| <i>D. pluriovulata</i> , <i>F. v. Mueller</i> .                                                                                                                                                  | Older G. D. = (M. Pliocene?). | * <i>l. c.</i> p. 41, t. 9, figs. 1—4; *Obs. New Veg. Foss. 1874, p. 22, t. 9, figs. 1—4.                                                      | Haddon, <i>Vict.</i>                    |
| Genus <b>Eisothecaryon</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 178.) ?= <i>Villaresia</i> .— <i>Oliaceæ</i> ?                                      |                               |                                                                                                                                                |                                         |
| <i>E. semiseptatum</i> , <i>F. v. Mueller</i> .                                                                                                                                                  | Older G. D. = (M. Pliocene?). | * <i>loc. cit.</i> p. 178.                                                                                                                     | Gulgong, N. S. Wales.                   |
| Genus <b>Eucalyptus</b> , <i>l'Heritier</i> , 1788. (Sertum Anglicum, p. 18.)— <i>Myrtaceæ</i> .                                                                                                 |                               |                                                                                                                                                |                                         |
| <i>E. obliqua</i> , <i>l'Heritier</i> .                                                                                                                                                          | Older G. D. = (M. Pliocene?). | * <i>loc. cit.</i> p. 18, t. 20; M'Coy, Smyth's Progress Report, 1874, i. p. 36; Smyth, <i>ibid.</i> p. 30; <i>id. ibid.</i> 1876, iii. p. 48. | ?Malmsbury and Daylesford, <i>Vict.</i> |
| <i>E. Pluti</i> , <i>M'Coy</i> .                                                                                                                                                                 | Older G. D. = (M. Pliocene?). | *Geol. Survey, Vict. 1876, Dec. iv. p. 29, t. 39; Couchman's Progress Report, 1877, iv. p. 17.                                                 | Daylesford, <i>Vict.</i>                |
| Genus <b>Illicites</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines N. S. Wales, for 1876, p. 178.) ?= <i>Illicium</i> .— <i>Magnoliaceæ</i> ?                                         |                               |                                                                                                                                                |                                         |
| <i>I. astrocarpa</i> , <i>F. v. Mueller</i> .                                                                                                                                                    | Older G. D. (=M. Pliocene?).  | * <i>loc. cit.</i> p. 179.                                                                                                                     | Gulgong, N. S. Wales.                   |
| Genus <b>Laurus</b> , <i>Tournefort</i> , 1700. (Inst. rei Herbariæ, ed. alt. i. p. 597.)— <i>Lauraceæ</i> .                                                                                     |                               |                                                                                                                                                |                                         |
| <i>L. sp. ind.</i>                                                                                                                                                                               | U. Ter.?(Bacchus Marsh beds). | Smyth, Mineral Statistics, Exhib. Essay, 1872, p. 15 note; Progress Report, 1875, ii. p. 24.                                                   | Bacchus Marsh, <i>Vict.</i>             |
| <i>L. Werribeensis</i> , <i>M'Coy</i> .                                                                                                                                                          | M. Ter. (Miocene?).           | *Geol. Survey, Vict. 1876, iv. p. 32, t. 40, f. 4; Couchman's Progress Report, 1877, iv. p. 17.                                                | Werribee R. <i>Vict.</i>                |
| Genus <b>Liversidgea</b> , <i>F. v. Mueller</i> , 1877. (Jour. R. Soc. N. S. Wales, x. p. 239.)                                                                                                  |                               |                                                                                                                                                |                                         |
| <i>L. oxyspora</i> , <i>F. v. Mueller</i> .                                                                                                                                                      |                               | * <i>loc. cit.</i> p. 239, plate, f. 1—5.                                                                                                      | Richmond River, N. S. Wales.            |
| Genus <b>Oechthodocaryon</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 178.)— <i>Capparidaceæ</i> ?                                                      |                               |                                                                                                                                                |                                         |
| <i>O. Wilkinsonii</i> , <i>F. v. Mueller</i> .                                                                                                                                                   | Older G. D. (=M. Pliocene?).  | * <i>loc. cit.</i> p. 179.                                                                                                                     | Gulgong, N. S. Wales.                   |

## (Plantæ.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                               | Strat. Subdivision.          | References.                                                                                                                                                             | Localities, &c.                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Genus <b>Odontocaryon</b> , <i>F. v. Mueller</i> , 1873. (Repts. Mining Surveyors, Regist. Vict. Sept. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 18.)                    |                              |                                                                                                                                                                         |                                                                                      |
| <i>O. Macgregorii</i> , <i>F. v. Mueller</i> .                                                                                                                                   | Older G. D. (=M. Pliocene?). | * <i>loc. cit.</i> p. 41, t. 6, figs. 5—8; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, p. 18, t. 6, figs. 5—8.                                     | Nintingbool, near Haddon, <i>Vict.</i>                                               |
| Genus <b>Pentacoila</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)— <i>Sapindaceæ</i> .                                             |                              |                                                                                                                                                                         |                                                                                      |
| <i>P. Gulgonensis</i> , <i>F. v. Mueller</i> .                                                                                                                                   | Older G. D. (=M. Pliocene?). | * <i>loc. cit.</i> p. 179.                                                                                                                                              | Gulgong, N. S. <i>Wales</i> .                                                        |
| Genus <b>Penteune</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Vict. Dec. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 20.)— <i>Sapindaceæ</i> .    |                              |                                                                                                                                                                         |                                                                                      |
| <i>P. brachyclinis</i> , <i>F. v. Mueller</i> .                                                                                                                                  | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> p. 41, t. 8, figs. 1—9; *Obs. New Veg. Foss. 1874, p. 21, t. 8, f. 1—9.                                                                                  | Smythe's Creek, <i>Vict.</i>                                                         |
| <i>P. Clarkei</i> , <i>F. v. Mueller</i> .                                                                                                                                       | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> p. 41, t. 7, figs. 1—10; *Obs. New Veg. Foss. 1874, pp. 21 and 27, t. 7, f. 1—10; Wilkinson, Mines and Mining Stats. N. S. Wales, 1875, p. 125.          | Smythe's Creek; Eldorado Mines, Beechworth, <i>Vict.</i> Orange, N.S. <i>Wales</i> . |
| <i>P. trachyclinis</i> , <i>F. v. Mueller</i> .                                                                                                                                  | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> p. 41, t. 8, figs. 10—17; *Obs. New Veg. Foss. 1874, p. 22, t. 8, figs. 10—17.                                                                           | Smythe's Creek; Eldorado Mines, Beechworth, <i>Vict.</i>                             |
| Genus <b>Phymatocaryon</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors, Regist. Vict. June, App. B. p. 47; Obs. New Veg. Fossils, 1874, p. 10.)— <i>Sapindaceæ</i> ? |                              |                                                                                                                                                                         |                                                                                      |
| <i>P. angulare</i> , <i>F. v. Mueller</i> .                                                                                                                                      | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> Sept. 1874, App. p. 41, t. 10, figs. 1—4; *Obs. New Veg. Foss. 1874, p. 23, t. 10, figs. 1—4.                                                            | Smythe's Creek, <i>Vict.</i>                                                         |
| <i>P. bivalve</i> , <i>F. v. Mueller</i> .                                                                                                                                       | Older G. D. (=M. Pliocene?). | *Ann. Report Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180.                                                                                                          | Gulgong, N. S. <i>Wales</i> .                                                        |
| <i>P. Mackayi</i> , <i>F. v. Mueller</i> .                                                                                                                                       | Older G. D. (=M. Pliocene?). | *Repts. Mining Surveyors, Regist. Vict. June, 1871, App. B. p. 47, t. 2, f. 1—15; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, pp. 11 and 27, t. 2. | Haddon; Tangil R.; Eldorado Mines, Beechworth, <i>Vict.</i>                          |
| Genus <b>Platycoila</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Sept. 1874, App. p. 41; Obs. New Veg. Fossils, p. 23.)                                  |                              |                                                                                                                                                                         |                                                                                      |
| <i>P. Sullivani</i> , <i>F. v. Mueller</i> .                                                                                                                                     | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> p. 41, t. 9, figs. 5—9; *Obs. New Veg. Foss. 1874, p. 23, t. 9, figs. 5—9.                                                                               | Nintingbool, near Haddon, <i>Vict.</i>                                               |

## (Plantæ.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                            | Strat. Subdivision.          | References.                                                                                                                                                                                                                                                                                                                                                                                                       | Localities, &c.                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Genus <b>Pleiacron</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>P. elachocarpum</i> , <i>F. v. Mueller</i> .                                                                                                                                                               | Older G. D. (=M. Pliocene?). | * <i>loc. cit.</i> p. 179.                                                                                                                                                                                                                                                                                                                                                                                        | Gulgong, N. S. Wales.                                                    |
| Genus <b>Plesiocapparis</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors, Regist. Sept. 1871, App. p. 40; Obs. New Veg. Fossils, 1874, p. 16.)— <i>Capparidaceæ</i> ?                              |                              |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>P. leptocelyphis</i> , <i>F. v. Mueller</i> .                                                                                                                                                              | Older G. D. (=M. Pliocene?). | *Ann. Report Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180.                                                                                                                                                                                                                                                                                                                                                    | Gulgong, N. S. Wales.                                                    |
| <i>P. prisca</i> , <i>F. v. Mueller</i> .                                                                                                                                                                     | Older G. D. (=M. Pliocene?). | *Reports Mining Surveyors, Regist. Sept. 1871, App. p. 40, t. 4, figs. 9—11; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, p. 16, t. 4, figs. 9—11.                                                                                                                                                                                                                                            | Haddon, Vict.                                                            |
| Genus <b>Rhytidocaryon</b> , <i>F. v. Mueller</i> , 1875. (Ann. Report Dept. Mines, N. S. Wales, for 1875!; Repts. Mining Surveyors and Regists. Vict. Sept. 1876, p. 39.)— <i>Menispermaceæ</i> .            |                              |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>R. Wilkinsonii</i> , <i>F. v. Mueller</i> .                                                                                                                                                                | Older G. D. (=M. Pliocene?). | Clarke, Remarks Sed. Forms N.S. Wales, 3rd ed. 1875, p. 49; Wilkinson, *Mines and Mining Stats. N. S. Wales, 1875, p. 124; v. Mueller, Repts. Mining Surveyors, Sept. 1876, p. 39, t. 12.                                                                                                                                                                                                                         | W. of Bathurst; Lumpy Swamp, near Orange and Carcoar, N. S. Wales.       |
| Genus <b>Rhytidotheca</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors and Regists. Vict. Sept. 1871, App. p. 39; Obs. New Veg. Fossils, 1874, p. 14.)                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>R. Lynchii</i> , <i>F. v. Mueller</i> .                                                                                                                                                                    | Older G. D. (=M. Pliocene?). | * <i>l. c.</i> p. 39, t. 4, figs. 1—8; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. Vict. 1874, p. 15, t. 4, figs. 1—8.                                                                                                                                                                                                                                                                             | Nintingbool, near Haddon, Vict.                                          |
| <i>R. pleioclinis</i> , <i>F. v. Mueller</i> .                                                                                                                                                                | Older G. D. (=M. Pliocene?). | *Repts. Mining Surveyors and Regists. Vict. Sept. 1873, App. p. 42, t. 6, figs. 1—4; *Obs. New Veg. Foss. Vict. 1874, p. 19, t. 6, figs. 1—4.                                                                                                                                                                                                                                                                     | Nintingbool, near Haddon, Vict.                                          |
| Genus <b>Spondylostrobus</b> , <i>F. v. Mueller</i> , 1870. (Geol. Mag. vii. p. 390; Reports Mining Surveyors and Regists. March 1871, App. B. p. 48; Obs. New Veg. Fossils, 1874, p. 8.)— <i>Coniferae</i> . |                              |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>S. Smythii</i> , <i>F. v. Mueller</i> .                                                                                                                                                                    | Older G. D. (=M. Pliocene?). | Geol. Mag. 1870, vii. p. 390; Quart. Jour. Geol. Soc. 1870, xxvi. p. 610; *Repts. Mining Surveyors and Regists. Vict. March, 1871, App. B. p. 48, t. 1; Smyth's Progress Rept. 1874, p. 37; *Obs. New Veg. Foss. Vict. 1874, pp. 8 and 27, t. 1; Wilkinson, Mines and Mining Stat. N. S. Wales, 1875, p. 125; var. <i>cryptaxis</i> , v. Mueller, *Ann. Report, Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180. | Haddon; R. Tangil; Eldorado, near Beechworth, Vict. Orange, N. S. Wales. |

## (Plantæ—Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                         | Strat. Subdivision.           | References.                                                                                                         | Localities, &c.                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Genus <b>Trematocaryon</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors and Regists. Vict. June, 1871, App. B. p. 48; Obs. New Veg. Fossils, 1874, p. 12.)— <i>Verbenaceæ</i> . |                               |                                                                                                                     |                                                |
| T. Maclellani, <i>F. v. Mueller</i> .                                                                                                                                                      | Older G. D. (= M. Pliocene?). | *l. c. p. 48, t. 3, figs. 1—17; Smyth's Progress Report, 1874, p. 37; *Obs. New Foss. Veg. Vict. 1874, p. 13, t. 3. | Nintingbool; Eldorado Mines, Beechworth, Vict. |
| Genus <b>Wilkinsonia</b> , <i>F. v. Mueller</i> , 1877. (Reports Mining Surveyors and Regists. Sept. 1877, p. 37.)                                                                         |                               |                                                                                                                     |                                                |
| W. bilaminata, <i>F. v. Mueller</i> .                                                                                                                                                      | Older G. D. (= M. Pliocene?). | loc. cit. p. 37, t. 12.                                                                                             | Benecree, Gulgong, N. S. Wales.                |
| Genus <b>Xylocaryon</b> , <i>F. v. Mueller</i> , 1875. (Repts. Mining Surveyors and Regists. Vict. June, 1875, App. p. 41.)                                                                |                               |                                                                                                                     |                                                |
| X. Lockii, <i>F. v. Mueller</i> .                                                                                                                                                          | Older G. D. (= M. Pliocene?). | *l. c. p. 41, t. 11; Smyth's *Progress Report, 1876, III. p. 77.                                                    | Nintingbool, Vict.                             |

Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.

Order—Foraminifera.

Genus **Amphistegina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. VII. p. 304.)  
*Perforata-Nummulinidæ*.

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| A. vulgaris, <i>d'Orb.</i> | Hamilton Series; Mt. Gambier Series (L. or M. Ter.?). | loc. cit. p. 305; Parker, Jones, and Brady, *Annals Nat. Hist. 1865, xvi. pp. 25, 36, t. 3, f. 91; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391. | Muddy Ck. Vict. Mount Gambier, S. Australia? (fide Jones). |
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Genus **Biloculina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. VII. p. 297; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 4.)—*Imperforata-Miliolida*.

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| B. contraria, <i>d'Orb.</i> | M. Ter. (Miocene?). | *Foram. Foss. Vien. 1846, p. 266, t. 16, f. 4—6; H. B. Brady, *Linn. Trans. 1864, xxiv. pp. 466 and 472, t. 48, f. 2; Etheridge, jun. Geol. Mag. Dec. 2, III. p. 335.                                                                                                                                  | Murray Flats, S. Australia. |
| B. depressa, <i>d'Orb.</i>  | M. Ter. (Miocene?). | Ann. Sci. Nat. 1826, VII. p. 298; <i>Miliola (Biloculina)</i> , Parker and Jones, *Phil. Trans. 1865, CLV. p. 409, t. 17, f. 89 a and b; Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 6, t. 3, f. 29 and 30; <i>Biloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335. | Murray Flats, S. Australia. |
| B. elongata, <i>d'Orb.</i>  | M. Ter. (Miocene?). | Ann. Sci. Nat. 1826, VII. p. 298; <i>Miliola (Biloculina)</i> , Parker and Jones, *Phil. Trans. 1865, CLV. p. 409, t. 17, f. 88, 90, and 91; <i>Biloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.                                                                                 | Murray Flats, S. Australia. |

## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                   | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                     |
|--------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <i>B. ringens</i> , <i>Lamarck</i> . | M. Ter. (Miocene?). | <i>Miliolites</i> , *Ann. Museum, 1804, v. p. 351; <i>Biloculina</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 298, t. 10, f. 28—33; <i>Miliola</i> ( <i>Biloculina</i> ), Parker and Jones, *Phil. Trans. 1865, clv. p. 409, t. 15, f. 42—44; <i>Biloculina</i> , Jones, Parker and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 5, t. 3, f. 26—28; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, <i>S. Australia</i> . |

Genus *Cassidulina*, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 282.)  
*Perforata-Globigerinida*.

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|------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <i>C. oblonga</i> , <i>Reuss</i> . | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?). | *Denksch. K. Akad. Wissensch. Wien, i. 1850, p. 376, t. 48, f. 5 and 6; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>id.</i> Proc. R. Soc. Tas. (for 1875), 1876, p. 18. | Mount Gambier, <i>S. Australia</i> .<br>Table Cape, <i>Tas</i> . |
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Genus *Cornuspira*, *Schultze*, 1854. (Organismus Polythal. p. 40; Parker and Jones, Mon. Foram. Crag. 1866, pt. 1, p. 1.)—*Imperforata-Miliolida*.

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|----------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <i>C. foliacea</i> , <i>Philippi</i> . | M. Ter. (Miocene?). | <i>Orbis</i> , *Enum. Moll. Sicilia, 1844, ii. p. 147, t. 24, f. 26; <i>Cornuspira</i> , H. B. Brady, Linn. Trans. 1864, xxiv. p. 472; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 2, t. 3, f. 50 and 51; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                           | Murray Flats, <i>S. Australia</i> . |
| <i>C. involvens</i> , <i>Reuss</i> .   | M. Ter. (Miocene?). | <i>Operculina</i> , *Denksch. K. Akad. Wissensch. Wien, 1850, i. p. 370, t. 46, f. 30; <i>Cornuspira</i> , *Sitz. K. Akad. Wissensch. Wien, 1863, xlviii. 1 Abth. p. 39, t. 1, f. 2; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 3, t. 3, f. 52—54; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, <i>S. Australia</i> . |

Genus *Cristellaria*, *Lamarck*, 1812. (Cours de Zoologie! Hist. Nat. Anim. s. Vertèb. 1822, vii. p. 607; Parker, Jones, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 72.)  
*Perforata-Lagenida*.

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| <i>C. rotulata</i> , <i>Lamarck</i> . | M. Ter. (Miocene?). | <i>Lenticulites</i> , *Ann. du Museum, v. p. 188; <i>id. ibid.</i> viii. t. 62, f. 11; <i>Cristellaria</i> , <i>d'Orb.</i> *Mém. Soc. | Murray Flats, <i>S. Australia</i> . |
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## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                      | Strat. Subdivision.                                     | References.                                                                                                                                                                                                                                                                                                                                | Localities, &c.                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|                                                                                                                                         |                                                         | Géol. de France, 1840, iv. p. 26, t. 2, f. 15—18; <i>id.</i> Parker and Jones, *Phil. Trans. 1865, clv. p. 345, t. 13, f. 19.                                                                                                                                                                                                              |                                                  |
| Genus <b>Discorbina</b> , <i>Parker and Jones</i> , 1862. (Carpenter's Introduction Foram. p. 203.)<br><i>Perforata-Globigerinida</i> . |                                                         |                                                                                                                                                                                                                                                                                                                                            |                                                  |
| D. Bertheloti, <i>d'Orb.</i>                                                                                                            | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?). | <i>Rosalina</i> , *Foram. Canaries, 1839, p. 135, t. 1, figs. 28—30; <i>id.</i> Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Discorbina</i> , Parker and Jones, Phil. Trans. 1865, clv. p. 385; <i>Rosalina</i> , Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18. | Mount Gambier, S. Australia.<br>Table Cape, Tas. |
| D. turbo, <i>d'Orbigny</i> .                                                                                                            | Hamilton Series (L. or M. Ter.?).                       | <i>Rotalia</i> , Ann. Sc. Nat. 1826, vii. p. 274; <i>Discorbina</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 384, t. 14, f. 18—23, t. 16, figs. 26—28; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 36; Woods, Quart. Jour. Geol. Soc. 1860, xxi. p. 391.                                                              | Muddy Ck. Vict.                                  |

Genus **Glandulina**, *d'Orbigny*, 1826. (Ann. Sci. Nat. vii. p. 251; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 47.)—*Perforata*, *Lagenida*.

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| G. lævigata, <i>d'Orb.</i> | M. Ter. (Miocene?). | <i>Nodosaria</i> , * <i>loc. cit.</i> p. 252, t. 10, f. 1—3; <i>Glandulina</i> , *Foram. Foss. Vien. 1846, p. 29, t. 1, f. 4 and 5; <i>Nodosaria</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 280, t. 10, f. 6—9; <i>N. (Glandulina)</i> , <i>id.</i> *Phil. Trans. 1865, clv. p. 340, t. 13, f. 1; <i>Glandulina</i> , Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 47, t. 1, f. 1 and 2; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, S. Australia. |
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Genus **Globigerina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 277.)  
*Perforata-Globigerinida*.

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| G. bulloides, <i>d'Orb.</i> | Mt. Gambier Series (L. or M. Ter.?). | <i>loc. cit.</i> p. 277; *Foram. Foss. Vien. 1846, p. 163, t. 9, figs. 4—6; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, pp. 71 and 72; Parker, Jones, and Brady, *Annals Nat. Hist. 1865, xvi. pp. 21, 31, 36, t. 2, figs. 55, 56; <i>id.</i> * <i>ibid.</i> 1871, viii. p. 175, t. 11, f. 112. | Mount Gambier, S. Australia. |
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## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                   | Strat. Subdivision.                                   | References.                                                                                                                                                                                                                                                                                                                                                  | Localities, &c.                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Genus <b>Hauerina</b> , <i>d'Orbigny</i> , 1839. (Foram. de Cuba!; Foram. Foss. Vien. 1846, p. 118.)<br><i>Imperforata-Miliolida</i> .                                               |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>H. compressa</i> , <i>d'Orb.</i>                                                                                                                                                  | M. Ter. (Miocene?).                                   | *Foram. Foss. Vien. 1846, p. 119, t. 5, f. 25—27; Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.                                                                                                                                                                                                                                                      | Murray Flats, <i>S. Australia</i> .                                         |
| Genus <b>Lituola</b> , <i>Lamarck</i> , 1804. (Ann. Museum, v. p. 242.)— <i>Imperforata-Lituolida</i> .                                                                              |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>L. Soldanii</i> , <i>Jones and Parker</i> .                                                                                                                                       |                                                       | *Quart. Jour. Geol. Soc. 1860, xvi. p. 307.                                                                                                                                                                                                                                                                                                                  | Geelong, <i>Vict.</i> (fide Jones).                                         |
| Genus <b>Nummulina</b> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. VII. p. 295. Brady, Mon. Carb. Permian Foram. 1876, p. 147.)— <i>Perforata-Nummulinida</i> .                        |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>N. Raymondi</i> , <i>Deufr.</i> ?                                                                                                                                                 | Hamilton beds (L. or M. Ter.?).                       | <i>Nummulites</i> , Dict. Sc. Nat. 1825, xxxv. p. 226; <i>d'Archiac et Haime</i> , *Anim. Foss. de l'Inde, 1853, p. 128, t. 7, figs. 13—17.                                                                                                                                                                                                                  | Muddy Ck. <i>Vict.</i> (fide Jones).                                        |
| Genus <b>Operculina</b> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. VII. p. 281.)— <i>Perforata-Nummulinida</i> .                                                                      |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>O. Arabica</i> , <i>Carter</i> .                                                                                                                                                  | Mt. Gambier Series.                                   | *Annals Nat. Hist. 1852, x. p. 161, t. 4; Woods, Geol. Obs. S. Austr. 1862, p. 72.                                                                                                                                                                                                                                                                           | Mount Gambier, <i>S. Australia</i> .                                        |
| <i>O. complanata</i> , <i>Deufr.</i>                                                                                                                                                 | Hamilton Series; Mt. Gambier Series (L. or M. Ter.?). | <i>Lenticulites</i> , *Dict. Sc. Nat. 1822, p. 453; <i>Operculina</i> , <i>d'Orb.</i> Ann. Sc. Nat. 1826, VII. p. 281; Parker and Jones, Annals Nat. Hist. 1861, VIII. p. 229; <i>id.</i> <i>ibid.</i> 1863, XII. pp. 435, 440; Parker, Jones, and Brady, <i>ibid.</i> 1865, XVI. pp. 32, 36, t. 3, f. 93; Woods, Quart. Jour. Geol. Soc. 1865, XXI. p. 391. | Muddy Ck. <i>Vict.</i><br>Mount Gambier, <i>S. Australia?</i> (fide Jones). |
| Genus <b>Orbitolites</b> , <i>Lamarck</i> , 1801. (Système Anim. s. Vertèb. p. 376; Parker, Jones, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 22.)— <i>Imperforata-Miliolida</i> . |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>O. complanatus</i> , <i>Lamarck</i> .                                                                                                                                             | M. Ter. (Miocene?).                                   | * <i>loc. cit.</i> p. 376; Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.                                                                                                                                                                                                                                                                             | Murray Flats, <i>S. Australia</i> .                                         |
| Genus <b>Orbulina</b> , <i>d'Orbigny</i> , 1839. (Foram. de Cuba, p. 3.)— <i>Perforata-Globigerinida</i> .                                                                           |                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                             |
| <i>O. universa</i> , <i>d'Orb.</i>                                                                                                                                                   | Mt. Gambier Series (L. or M. Ter.?).                  | * <i>l. c.</i> p. 3, t. 1, f. 1; *Foram. Canaries, 1839, p. 122, t. 1, f. 1; Parker, Jones, and Brady, Annals Nat. Hist. 1871, VIII. p. 260.                                                                                                                                                                                                                 | Mount Gambier, <i>S. Australia?</i> (fide Jones).                           |



## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                          | Strat. Subdivision.                                   | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.                              |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Genus <i>Planorbulina</i> , d'Orbigny, 1826 (see p. 103).— <i>Perforata-Globigerinida</i> . |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
| <i>P. Haidingerii</i> , d'Orb.                                                              | Hamilton Series; Mt. Gambier Series (L. or M. Ter.?). | <i>Rotalia</i> , *Foram. Foss. Vien. 1846, p. 154, t. 8, figs. 8 and 9; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Pl. farcta</i> , var. <i>Haidingerii</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 382, t. 16, f. 22; <i>Planorbulina Haidingerii</i> , Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; <i>id.</i> Jones and Parker, Quart. Jour. Geol. Soc. 1872, xxviii. pp. 109, 110, table, <i>et seq.</i> | Muddy Ck. Vict. Mount Gambier, S. Australia. |
| <i>P. lobatula</i> , d'Orb.                                                                 | M. Ter. (Miocene?).                                   | See p. 103, <i>Truncatulina</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 293, t. 10, f. 17—21; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                                                                                                                                                                                                                                                                                                                         | Murray Flats, S. Australia.                  |
| <i>P. reticulata</i> , Czjžek.                                                              | Mt. Gambier Series (L. or M. Ter.?).                  | <i>Rotalina</i> , *Haiding. Nat. Abhandl. 1848, ii. p. 145, t. 13, figs. 7—9; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Planorbulina</i> , Parker and Jones, l. c. 1872, xxviii. p. 112; Etheridge, jun. Geol. Mag. Dec. 2, iii. p. 335.                                                                                                                                                                                 | Mount Gambier, S. Australia.                 |
| <i>P. rotula</i> , d'Orb.                                                                   | Mt. Gambier Series (L. or M. Ter.?).                  | <i>Anomalina</i> , *Foram. Foss. Vien. 1846, p. 172, t. 10, f. 10—12; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Pl. tuberosa</i> , var. <i>rotula</i> , Jones and Parker, l. c. 1872, xxviii. pp. 109, table, <i>et seq.</i>                                                                                                                                                                                             | Mount Gambier, S. Australia.                 |
| <i>P. Ungeriana</i> , d'Orb.                                                                | Mt. Gambier Series (L. or M. Ter.?).                  | Vide p. 104; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Planorbulina</i> , Jones and Parker, Quart. Jour. Geol. Soc. 1872, xxviii. pp. 109, table, <i>et seq.</i> ; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                                                                                                                                                                                 | Mount Gambier, S. Australia.                 |

Genus *Planularia*, DeFrance, 1826. (Dict. Sc. Nat. xli. p. 244).—*Perforata-Lagenida*.

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| <i>P. crepidula</i> , Fichtel and Moll. | Mt. Gambier Series (L. or M. Ter.?). | <i>Nautilus</i> , *Testacea Minut. 1803, p. 107, t. 19, fig. f—i. | Mount Gambier, S. Australia (fide Jones). |
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## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                             | Strat. Subdivision.                  | References.                                                                                                                                                              | Localities, &c.                              |
|------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Genus <b>Polymorphina</b> , <i>d'Orbigny</i> , 1826 (see p. 104).— <i>Perforata-Lagenida</i> . |                                      |                                                                                                                                                                          |                                              |
| <i>P. lactea</i> , <i>Walker</i> and <i>Jacob</i> .                                            | Mt. Gambier Series (L. or M. Ter.?). | Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 391 (see p. 104). | Muddy Ck. Vict. Mount Gambier, S. Australia. |

Genus **Polystomella**, *Lamarek*, 1822. (Hist. Nat. Anim. s. Vertèb. vii. p. 624.)  
*Perforata-Nummulinida*.

|                                                          |                     |                                                                                                                                                                                                 |                             |
|----------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>P. craticulata</i> , <i>Fichtel</i> and <i>Moll</i> . | M. Ter. (Miocene?). | <i>Nautilus</i> , *Testacea Minut. 1803, p. 51, t. 5, fig. <i>h, i</i> , and <i>k</i> ; Parker and Jones, Phil. Trans. 1865, clv. p. 400; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, S. Australia. |
| <i>P. macella</i> , <i>Fichtel</i> and <i>Moll</i> .     | M. Ter. (Miocene?). | <i>Nautilus</i> , *Testacea Minut. 1803, p. 107, t. 19, fig. <i>f, g</i> ; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                                                | Murray Flats, S. Australia. |

Genus **Pulvinulina**, *Parker and Jones*, 1862. (Carpenter's Introd. Foram. p. 210.)  
*Perforata-Globigerinida*.

|                                                              |                                                                |                                                                                                                                                                                                                                         |                                                           |
|--------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <i>P. pulchella</i> , <i>d'Orb</i> .                         | H a m i l t o n Series; Mt. Gambier Series (= L. or M. Ter.?). | <i>Rotalia</i> , Ann. Sc. Nat. 1826, vii. p. 274; <i>Pulvinulina</i> , Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 30; <i>id.</i> Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391.                                       | Muddy Ck. Vict. Mount Gambier, S. Australia (fide Jones). |
| <i>P. repanda</i> , var. <i>elegans</i> , <i>d'Orbigny</i> . | M. Ter. (Miocene?).                                            | <i>P. elegans</i> , <i>d'Orb</i> . Ann. Sci. Nat. 1826, vii. p. 276; <i>P. repanda</i> , var. <i>elegans</i> , Parker and Jones *Phil. Trans. 1865, clv. p. 397, t. 16, f. 44—46; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, S. Australia.                               |

Genus **Quinqueloculina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. 1826, viii. p. 301; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 9.)  
*Imperforata-Miliolida*.

|                                        |                     |                                                                                                                                                                                                                                                                    |                             |
|----------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>Q. agglutinans</i> , <i>d'Orb</i> . | M. Ter. (Miocene?). | *Foram. de Cuba, 1839, p. 195, t. 12, f. 11—131; <i>Miliola</i> ( <i>Quinqueloculina</i> ), Parker and Jones, *Phil. Trans. 1865, clv. p. 410, t. 15, f. 37 <i>a</i> and <i>b</i> ; <i>Quinqueloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, S. Australia. |
| <i>Q. secans</i> , <i>d'Orb</i> .      | M. Ter. (Miocene?). | Ann. Sc. Nat. 1826, vii. p. 303; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 34, t. 1, f. 10; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                                                                                  | Murray Flats, S. Australia. |

## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.              | Strat. Subdivision.                                      | References.                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.                                                   |
|---------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <i>Q. seminulum</i> , Linn.     | Hamilton Series; Mt. Gambier Series (L. or M. Ter.), &c. | *Syst. Nat. 12th ed. p. 1264, no. 791; <i>Quinqueloculina</i> , d'Orb. Ann. Sc. Nat. 1826, vii. p. 303; <i>Miliola</i> ( <i>Quinqueloculina</i> ), Parker and Jones, Annals Nat. Hist. 1859, iii. p. 480; <i>Quinqueloculina</i> , Parker, Jones, and Brady, <i>ibid.</i> 1871, viii. p. 251, t. 8, f. 10; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.         | Muddy Ck. Vict. Mt. Gambier (fide Jones); Murray Flats, S. Austr. |
| <i>Q. subrotunda</i> , Montagu. | M. Ter. (Miocene?).                                      | <i>Vermiculum</i> , Test. Brit. pt. 2, 1803, p. 521; <i>Quinqueloculina</i> , d'Orb. Ann. Sci. Nat. 1826, vii. p. 302; <i>Miliola</i> ( <i>Quinque.</i> ), Parker and Jones, *Phil. Trans. 1865, clv. p. 411, t. 15, f. 38 a and b; <i>Quinqueloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335; Jones, Parker, and Brady, *Mon. Crag. Foram. 1866, pt. 1, p. 11. | Murray Flats, S. Australia.                                       |

Genus **Rosalina**, d'Orbigny, 1826. (Ann. d. Sc. Nat. vii. p. 271.) Vide *Discorbina*, *Pulvinulina*, &c.

*R. Bertheloti*, d'Orb. | Vide *Discorbina Bertheloti*, d'Orb. |

Genus **Rotalia**, Lamarck, 1804. (Ann. Museum, v. p. 183.)—*Perforata-Globigerinida*.

|                                                             |                     |                                                                                                                                                                                                                                                                                                                                                                                             |                             |
|-------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <i>R. Beccarii</i> , Linn.<br>var. <i>Soldanii</i> , d'Orb. | M. Ter. (Miocene?). | <i>Nautilus Beccarii</i> , Syst. Nat. ed. 12, i. pt. 2, p. 1162; <i>Rotalia</i> , <i>id.</i> Parker and Jones, Annals, 1859, iii. p. 479; var. <i>Soldanii</i> , <i>id.</i> *Phil. Trans. 1865, clv. p. 389, t. 16, f. 31—33; <i>R. Soldanii</i> , Stache, *Pal. N. Seeland, 1865, p. 273, t. 24, f. 23 a—c, f. 24 a—c; <i>id.</i> R. Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, S. Australia. |
| <i>R. Haidingeri</i> , d'Orb.                               |                     | Vide <i>Planorbulina Haidingeri</i> , d'Orbigny.                                                                                                                                                                                                                                                                                                                                            |                             |
| <i>R. reticulata</i> , Čížžek.                              |                     | Vide <i>Planorbulina reticulata</i> , Čížžek.                                                                                                                                                                                                                                                                                                                                               |                             |
| <i>R. rotula</i> , d'Orb.                                   |                     | Vide <i>Planorbulina rotula</i> , d'Orb.                                                                                                                                                                                                                                                                                                                                                    |                             |
| <i>R. Ungeriana</i> , d'Orb.                                |                     | Vide <i>Planorbulina Ungeriana</i> , d'Orbigny.                                                                                                                                                                                                                                                                                                                                             |                             |

## (Rhizopoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                 | Strat. Subdivision. | References.                                                                                                                                                                                   | Localities, &c.                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Genus <i>Spiroloculina</i> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. vii. p. 298; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 15.)— <i>Imperforata-Miliolida</i> . |                     |                                                                                                                                                                                               |                                     |
| <i>S. canaliculata</i> , <i>d'Orbigny</i> .                                                                                                                                        | M. Ter. (Miocene?). | *Foram. Foss. Vien. 1846, p. 269, t. 16, f. 10—12; Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 16, t. 3, f. 39 and 40; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, <i>S. Australia</i> . |

Genus *Textularia*, *DeFrance*, 1824. (Dict. Sc. Nat. xxxii. p. 177.)  
*Perforata-Globigerinida*.

|                                       |                                                             |                                                                                                                                                                                                                                                                                                                                |                                                                            |
|---------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <i>T. agglutinans</i> , <i>d'Orb.</i> | Mt. Gambier Series; Table Cape Series (L. or M. Ter.).      | *Foram. de Cuba, t. 1, figs. 32—34; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; Parker and Jones, Annals Nat. Hist. 1863, xi. pp. 91, 97; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18.                                                                          | Mount Gambier, <i>S. Australia</i> .<br>Table Cape, <i>Tas.</i>            |
| <i>T. pygmæa</i> , <i>d'Orb.</i>      | Mt. Gambier Series; Table Cape Series (L. or M. Ter.).      | Ann. Sc. Nat. 1826, vii. p. 263; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. pp. 19, 36, t. 2, f. 59; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18.                                                       | Mount Gambier, <i>S. Australia</i> .<br>Table Cape, <i>Tas.</i>            |
| <i>T. sagittula</i> , <i>DeFr.</i>    | H a m i l t o n Series; Mt. Gambier Series (L. or M. Ter.). | Dict. Sc. Nat. 1824, xxxii. p. 177; <i>ibid.</i> 1828, lxxx. p. 344, t. 13, f. 5; <i>d'Orb.</i> Ann. Sc. Nat. 1826, vii. p. 263; Parker and Jones, Annals Nat. Hist. 1863, xii. pp. 218, 437; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; Parker, Jones, and Brady, Annals Nat. Hist. 1871, viii. p. 168, t. 11, f. 114. | Muddy Ck. <i>Vict.</i><br>Mount Gambier, <i>S. Australia</i> (fide Jones). |

Genus *Triloculina* (*Miliola*), *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 299; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 7.)—*Imperforata-Miliolida*.

|                                      |                     |                                                                                                                                                                                                                                                                                                                                |                                     |
|--------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <i>T. oblonga</i> , <i>Montagu</i> . | M. Ter. (Miocene?). | <i>Vermiculum</i> , *Test. Brit. pt. 2, 1803, p. 522, t. 14, f. 9; <i>Triloculina</i> ?, Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 300, t. 10, f. 37; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 7, t. 3, f. 31 and 32; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray Flats, <i>S. Australia</i> . |
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## (Rhizopoda—Actinozoa.)

## (Tertiary.)

| Genus and Species.             | Strat. Subdivision.                                   | References.                                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.                                            |
|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <i>T. tricarinata</i> , d'Orb. | M. Ter. (Miocene?).                                   | Ann. Sc. Nat. 1826, vii. p. 299; Parker and Jones, *Phil. Trans. 1865, clv. p. 409, t. 15, f. 40; Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 7, t. 3, f. 33 and 34; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.                                                                                                                                                 | Murray Flats, S. Australia.                                |
| <i>T. trigonula</i> , Lamk.    | Hamilton Series; Mt. Gambier Series (L. or M. Ter.?). | <i>Miliolites</i> , *Ann. Museum, 1804, v. p. 351; <i>Triloculina</i> , d'Orb. Ann. Sc. Nat. 1826, vii. p. 299; <i>id.</i> Parker and Jones, Annals Nat. Hist. 1860, v. pp. 287, 289, 470; <i>id. ibid. id.</i> 1863, xii. pp. 437, 441; <i>id.</i> Parker, Jones, and Brady, <i>ibid.</i> 1865, xvi. p. 33, t. 1, f. 7; <i>Miliola</i> , Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391. | Muddy Ck. Vict. Mount Gambier, S. Australia. (fide Jones). |

## Order—Spongida.

Genus *Tethia*, Lamarck, 1816. (Hist. Nat. Anim. s. Vertèb. ii. p. 384; Tethea, Bowerbank, Mon. Brit. Spongiadae, p. 181.)—*Silicea*.

|                             |                     |                                                                                                    |                    |
|-----------------------------|---------------------|----------------------------------------------------------------------------------------------------|--------------------|
| <i>T. Newberyi</i> , M'Coy. | M. Ter. (Miocene?). | Couchman's Progress Rept. 1877, iv. p. 155; *Geol. Survey, Vict. Dec. v. 1877, p. 31, t. 48, f. 1. | Boggy Creek, Vict. |
|-----------------------------|---------------------|----------------------------------------------------------------------------------------------------|--------------------|

## Sub-kingdom—Cœlenterata. Class—Actinozoa.

## Zoantharia et Alcyonaria.

Genus *Amphihelia*, Edwards and Haine, 1857. (Hist. Nat. Coralliaires, ii. p. 118.)<sup>1</sup> *Aporosa-Oculinidæ*.

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|--------------------------------|--|-----------------------------------------------------------|-------------------------------------|
| <i>A. incrustans</i> , Duncan. |  | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 20, f. 6. | W. of Aire River, Cape Otway, Vict. |
|--------------------------------|--|-----------------------------------------------------------|-------------------------------------|

Genus *Antillia*, Duncan, 1864. (Quart. Jour. Geol. Soc. xx. p. 28; Brüggemann, Annals Nat. Hist. 1877, xx. p. 307.)—*Aporosa-Astreidæ*.

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| <i>A. lens</i> , Duncan. | Hamilton Series (L. or M. Ter.?). | *Annals Nat. Hist. 1865, xvi. p. 185, t. 8, f. 6; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 306, t. 20, f. 12. | Hamilton, Vict. |
|--------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|

Genus *Balanophyllia*, S. V. Wood, 1844. (Annals Nat. Hist. xiii. p. 11.) *Perforata-Madreporidae*.

|                            |                                                                             |                                                                                                        |                                                |
|----------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <i>B. armata</i> , Duncan. | Schnapper Pt. beds = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?). | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35. | Hamilton; Schnapper Point, Hobson's Bay, Vict. |
|----------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|

<sup>1</sup> Previously called *Amphelia*, by Messrs Edwards and Haine (see *Compt. Rend.* xxix. p. 69, 1849).

## (Actinozoa.)

## (Tertiary.)

| Genus and Species.                                        | Strat. Subdivision.                       | References.                                                                                                                                                                                                                                       | Localities, &c.                                                           |
|-----------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <i>B. Australiensis</i> ,<br><i>Duncan</i> .              | Hamilton Series (L. or M. Ter.?).         | *Annals Nat. Hist. 1864, xiv. p. 164, t. 6, f. 1; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 303, t. 21, f. 6.                                                                                                      | Muddy Creek, near Hamilton, <i>Vict.</i>                                  |
| <i>B. campanulata</i> ,<br><i>Duncan</i> .                | Schnapper Pt. beds = Oligocene (L. Ter.). | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 1; M'Coy, Smyth's Progress Report, 1874, p. 35.                                                                                                                                            | W. of Ayre River, Cape Otway; Schnapper Point, Hobson's Bay, <i>Vict.</i> |
| <i>B. cylindrica</i> , <i>Michelin</i> .<br><i>otti</i> . |                                           | <i>Turbinolia</i> , *Spec. Zooph. Del. 1838, p. 73; <i>id.</i> Michelin, *Icon. Zooph. p. 38, t. 8, f. 5; <i>Balanophyllia</i> , Edwards, Hist. Nat. Corall. 1860, iii. p. 101; Duncan, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 7. | W. of Cape Otway, <i>Vict.</i>                                            |
| <i>B. fragilis</i> , <i>Duncan</i> .                      | Hamilton Series (L. or M. Ter.?).         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 303, t. 21, f. 5.                                                                                                                                                                                         | Muddy Creek, near Hamilton, <i>Vict.</i>                                  |
| <i>B. Selwyni</i> , <i>Duncan</i> .                       |                                           | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 303, t. 21, f. 4.                                                                                                                                                                                         | W. of Ayre River, Cape Otway, <i>Vict.</i>                                |
| <i>B. seminuda</i> ,<br><i>Duncan</i> .                   | Hamilton Series (L. or M. Ter.?).         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 2.                                                                                                                                                                                         | Hamilton, <i>Vict.</i>                                                    |
| <i>B. tubuliformis</i> ,<br><i>Duncan</i> .               | Hamilton Series (L. or M. Ter.?).         | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 9.                                                                                                                                                                                         | Muddy Creek, near Hamilton, <i>Vict.</i>                                  |
| <i>B. Ulrichi</i> , <i>Duncan</i> .                       |                                           | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 8.                                                                                                                                                                                         | W. of Cape Otway, <i>Vict.</i>                                            |

Genus **Caryophyllia**, *Lamarek*, 1801. (Système, p. 370; Histoire, 1816, ii. p. 224; Edwards, Hist. Nat. Corall. 1857, ii. p. 11.)—*Aporosa-Turbinolidae*.

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|-------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <i>C. viola</i> , <i>Woods</i> and<br><i>Duncan</i> . | Schnapper Pt. beds = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | <i>Turbinolia</i> , Woods, ms.; <i>Caryophyllia</i> , Woods and Duncan, *Annals Nat. Hist. 1864, xiv. p. 162, t. 5, f. 2; Duncan, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id.</i> * <i>ibid.</i> 1870, xxvi. p. 295, t. 19, f. 1; <i>ibid.</i> M'Coy, Smyth's Progress Report, 1874, p. 35. | Violet Creek, near Hamilton; Schnapper Point, Hobson's Bay, <i>Vict.</i> |
|-------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|

Genus **Conosmilia**, *Duncan*, 1865. (Annals Nat. Hist. xvi. p. 184.)—*Aporosa-Astræidae*.

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|-------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------|
| <i>C. anomala</i> , <i>Duncan</i> . | Hamilton Series (L. or M. Ter.?). | * <i>l. c.</i> p. 184, t. 8, f. 4; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 10. | Hamilton, <i>Vict.</i>               |
| <i>C. elegans</i> , <i>Duncan</i> . |                                   | * <i>l. c.</i> p. 184, t. 8, f. 3; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 5.  | Geelong, <i>Vict.</i>                |
| <i>C. lituola</i> , <i>Duncan</i> . |                                   | *Quart. Jour. Geol. Soc. 1870; xxvi. p. 305, t. 20, f. 11.                                    | W. of Gellibrand River, <i>Vict.</i> |

## (Actinozoa.)

## (Tertiary.)

| Genus and Species.                                                                                                                                | Strat. Subdivision.                       | References.                                                                                                                                                                                          | Localities, &c.                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <i>C. striata</i> , <i>Duncan</i> .                                                                                                               |                                           | *Annals Nat. Hist. 1865, xvi. p. 184, t. 8, f. 3; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 9.                                                                                          | Geelong, <i>Vict</i> .                                                       |
| Genus <i>Conotrochus</i> , <i>Sequenza</i> , 1864. (Mem. R. Accad. Sci. Torino, 2nd ser. xxi. p. 477.)<br><i>Aporosa-Turbinolida</i> .            |                                           |                                                                                                                                                                                                      |                                                                              |
| <i>C. Maccoyi</i> , <i>Duncan</i> .                                                                                                               | Table Cape Series (L. or M. Ter.?).       | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 7; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17.                                             | W. of Cape Otway, <i>Vict</i> .<br>Table Cape, <i>Tas</i> .                  |
| <i>C. typus</i> , <i>Sequenza</i> .                                                                                                               |                                           | *Mem. R. Accad. Sci. Torino, xxi. p. 477, t. 10, f. 1; var. <i>Australiensis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 8.                                         | W. of Gellibrand River, <i>Vict</i> .                                        |
| Genus <i>Cycloseris</i> , <i>Edwards</i> and <i>Haime</i> , 1849. (Comptes Rendus, xxix. p. 72.)<br><i>Aporosa-Fungida</i> .                      |                                           |                                                                                                                                                                                                      |                                                                              |
| <i>C. tenuis</i> , <i>Duncan</i> .                                                                                                                |                                           | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 301, t. 20, f. 8.                                                                                                                                            | E. of Gellibrand River, <i>Vict</i> .                                        |
| Genus <i>Deltocyathus</i> , <i>Edwards</i> and <i>Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 325.)<br><i>Aporosa-Turbinolida</i> .          |                                           |                                                                                                                                                                                                      |                                                                              |
| <i>D. italicus</i> , <i>Edwards</i> and <i>Haime</i> .                                                                                            |                                           | *Ann. Sc. Nat. 3rd ser. ix. p. 326, t. 10, f. 11; var. <i>Australiensis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 297, t. 19, f. 4; M'Coy, Smyth's Progress Report, 1874, p. 35. | W. of Cape Otway, <i>Vict</i> .                                              |
| Genus <i>Dendrophyllia</i> , <i>Blainville</i> , 1830. (Dict. Sc. Nat. lx. p. 319.)<br><i>Perforata-Eupsammida</i> .                              |                                           |                                                                                                                                                                                                      |                                                                              |
| <i>D. Duncani</i> , <i>Tenison-Woods</i> .                                                                                                        | Table Cape Series (L. or M. Ter.?).       | Notes, Tertiary Foss. Tas. 1876, p. 43.                                                                                                                                                              | Table Cape, <i>N. Tas</i> .                                                  |
| <i>D. epithecata</i> , <i>Duncan</i> .                                                                                                            | Table Cape Series (L. or M. Ter.?).       | Quart. Jour. Geol. Soc. 1875, xxxi. p. 677, t. 38c, f. 1 and 2.                                                                                                                                      | Table Cape, <i>N. Tas</i> .                                                  |
| Genus <i>Flabellum</i> , <i>Lesson</i> , 1831, (Illust. de Zool. pl. xiv.) = <i>Phyllodes</i> , <i>Philippi</i> .<br><i>Aporosa-Turbinolida</i> . |                                           |                                                                                                                                                                                                      |                                                                              |
| <i>F. Candeanum</i> ( <i>d'Orb. ms.</i> ), <i>Edwards</i> and <i>Haime</i> .                                                                      | Murray River Series (L. or M. Ter.?), &c. | *Ann. Soc. Nat. 3rd ser. ix. p. 278, t. 8, f. 13; <i>Duncan</i> , Annals Nat. Hist. 1864, xiv. p. 163; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 300, t. 20, f. 1.                                     | W. of Gellibrand River, <i>Vict</i> .<br>Murray River, <i>S. Australia</i> . |

## (Actinozoa.)

## (Tertiary.)

| Genus and Species.                                | Strat. Subdivision.                                                              | References.                                                                                                                                                                                                                                                        | Localities, &c.                                                                         |
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| <i>F. distinctum</i> , <i>Edwards and Haime</i> . |                                                                                  | *Ann. Sc. Nat. 3rd ser. ix. p. 262; Duncan, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 299, t. 20, f. 2; M'Coy, Smyth's Progress Report, 1874, p. 35.                                                                                                                 | W. of Aire River, Cape Otway, Vict.                                                     |
| <i>F. Duncani</i> , <i>Tenison-Woods</i> .        | Table Cape Series (L. or M. Ter.?).                                              | *Notes, Tertiary Foss. Tas. 1876, p. 43.                                                                                                                                                                                                                           | Table Cape, Tas.                                                                        |
| <i>F. Gambierense</i> , <i>Duncan</i> .           | Mt. Gambier Series (L. or M. Ter.?).                                             | *Annals Nat. Hist. 1864, xiv. p. 163, t. 5, f. 3; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 299, t. 19, figs. 9 and 10; M'Coy, Smyth's Progress Report, 1874, p. 35; ?Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31. | Mount Gambier, S. Australia.<br>W. of Aire River, Cape Otway, Vict.<br>Table Cape, Tas. |
| <i>F. Victorinæ</i> , <i>Duncan</i> .             | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | *Annals Nat. Hist. 1864, xiv. p. 162, t. 5, f. 2; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 299, t. 19, f. 11; M'Coy, Smyth's Progress Report, 1874, p. 35; ?Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31.          | Muddy Creek, near Hamilton; Schnapper Point, Hobson's Bay, Vict.<br>Table Cape, Tas.    |

Genus *Heliastrea*, *Edwards*, 1857. (Hist. Nat. des Corall. ii. p. 456.)  
*Aporosa-Astræidæ*.

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| <i>H. Tasmaniensis</i> , <i>Duncan</i> . | Table Cape Series. | *Quart. Jour. Geol. Soc. 1876, xxxii. p. 342, t. 22, f. 1—3. | Table Cape, Tas. |
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Genus *Isis*, *Linnæus*, 1758. (Systema, ed. 10, p. 799; Lamarek, Système, 1801, p. 375; *id.* Histoire, 1816, ii. p. 300.)—*Aleyonaria-Gorgoniadæ*.

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| <i>I. sp. ind.</i> |  | Duncan, *Quart. Jour. Geol. Soc. xxxi. p. 673, group 1, t. 38 a, figs. 5—7, group 2, t. 38 a, f. 4, group 3, t. 38 a, figs. 1—3. | Cape Otway, Vict. |
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Genus *Palæoseris*, *Duncan*, 1870. (Quart. Jour. Geol. Soc. xxvi. p. 301.)  
*Aporosa-Fungidæ*.

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| <i>P. Woodsi</i> , <i>Duncan</i> . | Hamilton Series (L. or M. Ter.?). | <i>Trochoseris</i> , Duncan, *Annals Nat. Hist. 1864, xiv. p. 164, t. 6, f. 2; <i>ibid.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>Palæoseris</i> , * <i>id.</i> 1870, xxvi. p. 301, t. 20, f. 7. | Muddy Creek, near Hamilton, Vict. |
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Genus *Placotrochus*, *Edwards and Haime*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 232; Edwards, Hist. Nat. Corall. 1857, ii. p. 98.)—*Aporosa-Turbinolidæ*.

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| <i>P. deltoideus</i> , <i>Duncan</i> . | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | *Annals Nat. Hist. 1864, xiv. p. 164, t. 5, f. 5; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 300, t. 20, f. 4; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17. | Muddy Creek, near Hamilton; Schnapper Point; W. of Gellibrand River, Vict.<br>Table Cape, Tas. |
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## (Actinozoa.)

## (Tertiary.)

| Genus and Species.                       | Strat. Subdivision.                                                                 | References.                                                                                                                                                                                                                                                                     | Localities, &c.                                                                                    |
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| <i>P. elongatus</i> ,<br><i>Duncan</i> . | Schnapper Pt.<br>Series = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | *Annals Nat. Hist. 1864, xiv. p. 163, t. 5, f. 4; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 300, t. 20, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35; ? <i>P. elongatus</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31. | Muddy Creek, near Hamilton; Schnapper Point; W. of Aire Riv. Cape Otway, Vict.<br>Table Cape, Tas. |

Genus **Sphænotrochus**, *Edwards and Haime*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 240; Edwards, Hist. Nat. Corall. 1857, II. p. 65.)—*Aporosa-Turbinolidæ*.

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| <i>S. Australis</i> , <i>Woods and Duncan</i> . | Schnapper Pt.<br>Series = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | *Annals Nat. Hist. 1865, xvi. p. 183, t. 8, f. 1; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 297, t. 19, f. 5; M'Coy, Smyth's Progress Report, 1874, p. 35. | Hamilton; Schnapper Point, Vict.                     |
| <i>S. emaciatius</i> ,<br><i>Duncan</i> .       | Hamilton Series (L. or M. Ter.?).                                                   | *Annals Nat. Hist. 1865, xvi. p. 183, t. 8, f. 2.                                                                                                        | Hamilton, Vict.                                      |
| <i>S. excisus</i> , <i>Duncan</i> .             | Hamilton Series, &c., L. or M. Ter.?; Schnapper Pt. Series = Oligocene (L. Ter.).   | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 6; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17. | Hamilton; Schnapper Point, Vict.<br>Table Cape, Tas. |

Genus **Thamnastræa**, *Lesauvage*, 1823. (Mém. Soc. Hist. Nat. I. p. 243; Ann. Sci. Nat. 1832, xxvi. p. 329.)—*Aporosa-Astreidæ*.

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| <i>T. sera</i> , <i>Duncan</i> .                         | Table Cape Series (L. or M. Ter.?). | *Quart. Jour. Geol. Soc. 1876, xxxii. p. 343, pl. 22, f. 4—6. | Table Cape, Tas. |
| <i>T. Tasmaniensis</i> ( <i>Duncan</i> ), <i>Woods</i> . | Table Cape Series (L. or M. Ter.?). | Notes, Tert. Foss. Tas. 1876, p. 39.                          | Table Cape, Tas. |

Genus **Trochocyathus**, *Edwards and Haime*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 300; Edwards, Hist. Nat. Corall. 1857, II. p. 26.)—*Aporosa-Turbinolidæ*.

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| <i>T. meridionalis</i> ,<br><i>Duncan</i> . |  | <i>Petraia</i> , sp. Wilkinson, Geol. Report, C. Otway Dist. 1865, p. 24; <i>T. meridionalis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 296, t. 19, f. 2; M'Coy, Smyth's Progress Report, 1874, p. 35. | E. of Gellibrand River, Vict. |
| <i>T. Victorinæ</i> , <i>Duncan</i> .       |  | *Quart. Jour. Geol. Soc. 1870, xxvi. p. 296, t. 19, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35.                                                                                                                    | E. of Gellibrand River, Vict. |

## (Echinodermata.)

(Tertiary.)

| Genus and Species.                                                                                                                                                                                                               | Strat. Subdivision.                                   | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Localities, &c.                                                                                       |
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| <i>Sub-kingdom—Annuloida. Class—Echinodermata.</i>                                                                                                                                                                               |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
| Genus <b>Arachnoides</b> , <i>Klein</i> , 1734 (Nat. Disp. Ech. p. 33; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 90, 1873, pt. 3, p. 528) = <i>Monostychia</i> , Laube, 1869.— <i>Clypeastridæ-Scutellidæ</i> .        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
| <i>A. Australis</i> , <i>Laube</i> .                                                                                                                                                                                             | Mt. Gambier Series; Hamilton Series (L. or M. Ter.?). | ? <i>Scutella</i> , sp. Sturt, Two Expds. Int. S. Austr. 1832, II. p. 254, t. 3, f. 9; ? <i>ibid.</i> Tenison-Woods, Geol. Obs. S. Austr. 1862, p. 105; ? <i>Clypeaster</i> , sp. <i>id. ibid.</i> p. 77 cut; <i>Clypeaster folium</i> , Duncan (non Agassiz), Annals Nat. Hist. 1864, XIV. p. 166; <i>Monostychia Australis</i> , Laube, *Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 190, f. 3; <i>id. id. ibid.</i> Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, XIX. p. 77; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 448, 449; <i>Arachnoides</i> , Duncan, * <i>ibid.</i> 1877, XXXIII. p. 48. | Murray Riv. Cliffs and Mt. Gambier, <i>S. Australia</i> .<br>Muddy Creek, near Hamilton, <i>Vict.</i> |
| <i>A. elongatus</i> , <i>Duncan</i> .                                                                                                                                                                                            | Mt. Gambier Series.                                   | *Quart. Jour. Geol. Soc. 1877, XXXIII. p. 48, t. 3, f. 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mount Gambier, <i>S. Australia</i> .                                                                  |
| <i>A. Loveni</i> , <i>Duncan</i> .                                                                                                                                                                                               | M. Tertiary?                                          | *Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 47 and 65, t. 3, f. 6 and 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mordialloc and Curdies Inlet, <i>Vict.</i>                                                            |
| Genus <b>Catopygus</b> , <i>L. Agassiz</i> , 1835. (Prodrome; Mém. Soc. Sci. Neuchatel, I. p. 185; Desor, Synopsis, 1857, p. 282.)— <i>Petalosticha-Nucleolidæ</i> .                                                             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
| <i>C. elegans</i> , <i>Laube</i> .                                                                                                                                                                                               | Murray River Series (L. or M. Ter.?).                 | *Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 190, f. 8; Etheridge, jun. Quart. Jour. 1875, XXXI. p. 449; Duncan, *Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 51 and 67.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Murray Riv. Cliffs, <i>S. Australia</i> .                                                             |
| Genus <b>Cidaris</b> , <i>Klein</i> , 1734. (Nat. Disp. Ech. p. 14; Lamarck, Système, 1801, p. 348; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 98 and 252, 1873, pt. 3, p. 384.)<br><i>Desmosticha-Cidaridæ</i> .      |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
| <i>C. sp. ind.</i>                                                                                                                                                                                                               | Mt. Gambier Series.                                   | Tenison-Woods, Geol. Obs. S. Austr. 1862, pp. 76 and 81.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Murray Riv. Cliffs, <i>S. Australia</i> .                                                             |
| Genus <b>Clypeaster</b> , <i>Lamarck</i> , 1801. (Système, p. 349; Histoire, 1816, III. p. 12; Desor, Synopsis, 1857, p. 239; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 99, 306.)— <i>Clypeastridæ-Echinanthidæ</i> . |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
| <i>C. folium</i> , <i>Duncan</i> (non Agassiz).                                                                                                                                                                                  |                                                       | Vide <i>Arachnoides Australis</i> , Laube.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |

## (Echinodermata.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                                                                                  | Strat. Subdivision.                                                   | References.                                                                                                                                                                                                                                                                                                                                                                      | Localities, &c.                                               |
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| Genus <b>Echinanthus</b> , <i>Breynius</i> , 1732. (De Echinis !; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 106 and 310).— <i>Clypeastridae-Echinanthidae</i> .                                                                                                                          |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
| <i>E. testudinarius</i> ,<br><i>Gray</i> .                                                                                                                                                                                                                                                          |                                                                       | *Proc. Zool. Soc. 1851, p. 35;<br>A. Agassiz, * <i>loc. cit.</i> 1872, pts.<br>1 and 2, p. 106, 1873, pt. 3,<br>p. 514; Duncan, *Quart. Jour.<br>Geol. Soc. 1877, xxxiii, pp. 46<br>and 65.                                                                                                                                                                                      | Lindenow, Mitchell<br>River, <i>E. Vict.</i>                  |
| Genus <b>Echinarachnius</b> , <i>Leske</i> , 1778. (Addit. Klein's Nat. Disp. Echinod. p. 217;<br>A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 107 and 315.)<br><i>Clypeastridae-Scutellidae</i> .                                                                                          |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
| <i>E. parma</i> , <i>Lamarck</i> .                                                                                                                                                                                                                                                                  |                                                                       | <i>Scutella</i> , <i>Histoire</i> , 1816, iii, p. 11;<br><i>Echinarachnius</i> , <i>Gray</i> , <i>Annals</i><br><i>Phil.</i> 1825, x, p. 428; <i>id.</i> A.<br>Agassiz, * <i>loc. cit.</i> pts. 1 and 2,<br>pp. 107 and 316, t. 11 d, f. 4 and<br>5, t. 11 e, f. 4 and 5, t. 12,<br>f. 1—13; <i>id.</i> Duncan, <i>Quart.</i><br><i>Jour. Geol. Soc.</i> 1877, xxxiii,<br>p. 65. | <i>Vict.</i> or <i>S. Australia</i> ?                         |
| Genus <b>Echinobrissus</b> , <i>Breynius</i> , 1732. (De Echinis !; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 108, 1873, pt. 3, p. 555).— <i>Petalosticha-Nucleolidæ</i> .                                                                                                                |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
| <i>E. Australiæ</i> ,<br><i>Duncan</i> .                                                                                                                                                                                                                                                            | Mt. Gambier<br>Series (L. or<br>M. Ter.?).                            | *Quart. Jour. Geol. Soc. 1877,<br>xxxiii, pp. 50 and 66, t. 3,<br>f. 11.                                                                                                                                                                                                                                                                                                         | Cape Otway, <i>Vict.</i><br>(Upper Coralline<br>beds).        |
| Genus <b>Echinolampas</b> , <i>Gray</i> , 1825. ( <i>Annals Phil.</i> x. p. 429; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 114 and 335, 1873, pt. 3, p. 551.)<br><i>Petalosticha-Nucleolidæ</i> .                                                                                        |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
| <i>E. Australis</i> ,<br><i>Ten.-Woods</i> .                                                                                                                                                                                                                                                        | Mt. Gambier<br>Series (L. or<br>M. Ter.?).                            | Proc. Phil. Soc. Adelaide for 1865!<br>(?= <i>E. ovulum</i> , Laube).                                                                                                                                                                                                                                                                                                            | Mt. Gambier, <i>S.</i><br><i>Australia</i> .                  |
| <i>E. Corioensis</i> , <i>M<sup>c</sup>Coy</i> .                                                                                                                                                                                                                                                    |                                                                       | Smyth's Progress Report, 1874,<br>p. 36; Etheridge, jun. <i>Quart.</i><br><i>Jour. Geol. Soc.</i> 1875, xxxi,<br>p. 449.                                                                                                                                                                                                                                                         | Corio Bay, <i>Vict.</i>                                       |
| <i>E. ovulum</i> , <i>Laube</i> .                                                                                                                                                                                                                                                                   | Murray River<br>Series (L. or<br>M. Ter.?).                           | *Sitz. K. Akad. Wissensch. Wien,<br>1869, lxx, p. 191; Duncan,<br><i>Quart. Jour. Geol. Soc.</i> 1877,<br>xxxiii, p. 66; Etheridge, jun.<br><i>Quart. Jour. Geol. Soc.</i> 1875,<br>xxxii, p. 449.                                                                                                                                                                               | Murray R. Cliffs,<br><i>S. Australia</i> .                    |
| Genus <b>Echinus</b> , <i>Rondeletius</i> , 1554. (De Piscibus Marinis, p. 577; Linnæus, <i>Syst. Nat.</i> ed. 10, 1758, i, p. 662; Lamarck, <i>Système</i> , 1801, p. 38; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 121 and 293, 1873, pt. 3, p. 489.)<br><i>Desmosticha-Echinidæ</i> . |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |
| <i>E. sp. ind.</i>                                                                                                                                                                                                                                                                                  | Murray River<br>Series; Mt.<br>Gambier<br>Series (L. or<br>M. Ter.?). | Sturt, Two Expeditions Int. S.<br><i>Austr.</i> 1832, ii, p. 254, t. 3,<br>f. 11; Tenison-Woods, <i>Geol.</i><br><i>Obs. S. Austr.</i> 1862, pp. 77<br>and 105.                                                                                                                                                                                                                  | Murray R. Cliffs,<br>and Mount Gam-<br>bier, <i>S. Austr.</i> |

## (Echinodermata.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                           | Strat. Subdivision.                   | References.                                                                                                                                                                                          | Localities, &c.                               |
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| Genus <b>Eupatagus</b> , <i>L. Agassiz</i> , 1847. (Ann. Sc. Nat. 3rd series, viii. p. 9; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 128, 1873, pt. 3, p. 572.)<br><i>Petalosticha-Spatangidæ</i> . |                                       |                                                                                                                                                                                                      |                                               |
| <i>E. Forbesii</i> , <i>M'Coy</i> .                                                                                                                                                                          |                                       | Smyth's Progress Report, 1874, p. 36; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxxi. p. 449.                                                                                                    | Victoria.                                     |
| <i>E. Laubei</i> , <i>Duncan</i> .                                                                                                                                                                           |                                       | *Quart. Jour. Geol. Soc. 1877, xxxiii. p. 55, t. 3, f. 18.                                                                                                                                           | Sherbrook R. Vict.                            |
| <i>E. Murrayensis</i> ,<br><i>Laube</i> .                                                                                                                                                                    | Murray River Series (L. or M. Ter.?). | *Sitz. K. Akad. Wissensch. Wien, 1869, lxx. p. 196, f. 6; Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, xix. p. 77; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxi. p. 449.               | Murray R. Cliffs, S. Australia.               |
| <i>E. rotundus</i> , <i>Duncan</i> .                                                                                                                                                                         | Murray River Series (L. or M. Ter.?). | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 53 and 67, t. 3, f. 14—17.                                                                                                                                | Murray River, S. Australia.                   |
| <i>E. Wrightii</i> , <i>Laube</i> .                                                                                                                                                                          | Murray River Series (L. or M. Ter.?). | *Sitz. K. Akad. Wissensch. Wien, 1869, lxx. p. 195, f. 5; Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, xix. p. 77; ? <i>Echinolampus</i> , Tenison-Woods, Geol. Obs. S. Austr. 1862, p. 77. | Murray R. Cliffs, and ?Mt. Gambier, S. Austr. |

Genus **Hemiaster** (*Desor*, 1847), *Agassiz*, 1847. (Ann. Sci. Nat. 3rd ser. viii. p. 16; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 132, 1873, pt. 3, p. 585.)  
*Petalosticha-Spatangidæ*.

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| <i>H. Archeri</i> <sup>1</sup> , <i>Tenison-Woods</i> . | Mt. Gambier Series (L. or M. Ter.?). | Proc. Phil. Soc. Adelaide, for 1865! | Mt. Gambier, S. Australia, |
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Genus **Hemipatagus**, *Desor*, 1858 (Synop. Echin. Foss. p. 416) = *Maretia* (pars), A. Agassiz, non Gray. Vide *Lovenia*.

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| <i>H. Forbesii</i> , <i>Woods and Duncan</i> . |  | Vide <i>Lovenia Forbesii</i> .                       |  |
| <i>H. Forbesii</i> , <i>Laube</i> .            |  | Vide <i>Lovenia Forbesii</i> , var. <i>Woodsii</i> . |  |
| <i>H. Woodsii</i> , <i>Etheridge, jun.</i>     |  | Vide <i>Lovenia Forbesii</i> , var. <i>Woodsii</i> . |  |

Genus **Holaster**, *L. Agassiz*, 1835. (Prodrome, Mém. Soc. Sci. Neuchatel, i. p. 183; Desor, Synopsis, p. 336.)—*Petalosticha-Spatangidæ*.

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| <i>H. Australiæ</i> , <i>Duncan</i> . |  | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 51 and 67, t. 3, f. 12 and 13. | Castle Cove, Cape Otway, Vict. |
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Genus **Leiocidaris**, *Desor*, 1854. (Synop. Echin. Foss. p. 48; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 65.)—*Desmosticha-Cidaridæ*.

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| <i>L. Australiæ</i> , <i>Duncan</i> . |  | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 45 and 64, t. 3, f. 1 and 2. | Cape Otway, Vict. |
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<sup>1</sup> This is probably identical with one or other of the species here catalogued under a different name.

## (Echinodermata.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                     | Strat. Subdivision.                                                                                                         | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Localities, &c.                                                                                                                       |
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| Genus <b>Lovenia</b> ( <i>Desor</i> , 1847), <i>L. Agassiz</i> , 1847. (Ann. Sc. Nat. viii. p. 10; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 139, 1873, pt. 3, p. 574.)<br><i>Petalosticha-Spatangidae</i> . |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |
| <i>L. Forbesii</i> , <i>Woods and Duncan</i> .                                                                                                                                                                         | Hamilton Series; Mt. Gambier Series (L. or M. Ter.).<br>Murray River Series (L. or M. Ter.).<br>Mordialloc beds (Up. Ter.). | <i>Spatangus Hoffmanni</i> , Sturt (non Goldf.), Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 10; <i>S. Forbesii</i> , Tenison-Woods, Quart. Jour. Geol. Soc. 1860, xvi. p. 256; <i>id. ibid.</i> Trans. R. Soc. Vict. iii. p. 91; <i>id. ibid.</i> Geol. Obs. S. Austr. 1862, pp. 75 and 83; <i>Hemipatagus Forbesii</i> , Woods and Duncan, Annals Nat. Hist. 1864, xiv. p. 165, t. 6, f. 3; <i>Spatangus</i> , Wilkinson, Geol. Report, Cape Otway District, 1865, p. 23; <i>H. Forbesi</i> , Laube, *Sitz. K. Akad. Wissensch. Wien, 1869, lxx. p. 193, f. 4; <i>id.</i> Duncan, Quart. Jour. Geol. Soc. 1870, xxvi. p. 285; <i>id.</i> Tenison-Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 15; <i>Lovenia</i> , Duncan, *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 58, 59 and 68, t. 4, f. 5—8. | Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i><br>Portland; Spring Creek, near Geelong, Hamilton, and Mordialloc, <i>Vict.</i> |
| <i>L. Forbesi</i> , var. <i>minor</i> , <i>Duncan</i> .                                                                                                                                                                |                                                                                                                             | *Quart. Jour. Geol. Soc. 1877, xxxiii. p. 59.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mordialloc, <i>Vict.</i>                                                                                                              |
| <i>L. Forbesii</i> , var. <i>Woodsii</i> , <i>Etheridge, jun.</i>                                                                                                                                                      | Murray River Series; Mt. Gambier Series; Hamilton and Table Cape Series (L. or M. Ter.).                                    | <i>Hemipatagus Forbesii</i> , Quart. Jour. Geol. Soc. 1875, xxxi. t. 21, f. 8; <i>H. Woodsii</i> , Etheridge, jun. * <i>loc. cit.</i> p. 445, t. 21, f. 1—7; <i>Lovenia Forbesi</i> , var. Duncan, *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 58 and 59; <i>H. Woodsii</i> , Johnston, Notes Tertiary Beds, Table Cape, Tas. 1876, pp. 31 and 64.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Murray Cliffs, and Mount Gambier, <i>S. Australia</i> .<br>Hamilton and Mordialloc, <i>Vict.</i><br>Table Cape, <i>Tas.</i>           |
| Genus <b>Maretia</b> , <i>Gray</i> , 1855. (Brit. Mus. Cat. Recent Ech. p. 48; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 139, 1873, pt. 3, p. 568 pars.)<br><i>Petalosticha-Spatangidae</i> .                |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |
| <i>M. anomala</i> , <i>Duncan</i> .                                                                                                                                                                                    |                                                                                                                             | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 52 and 67, t. 4, f. 1—4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sherbrook R. <i>Vict.</i>                                                                                                             |
| Genus <b>Megalaster</b> , <i>Duncan</i> , 1877. (Quart. Jour. Geol. Soc. xxxiii. p. 61.)<br><i>Petalosticha-Spatangidae</i> .                                                                                          |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |
| <i>M. compressus</i> , <i>Duncan</i> .                                                                                                                                                                                 | Murray River Series (M. Ter.).                                                                                              | * <i>loc. cit.</i> pp. 62 and 68, f. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Murray River, <i>S. Australia</i> .                                                                                                   |

## (Echinodermata.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                         | Strat. Subdivision.                                      | References.                                                                                                                                                                                                                                  | Localities, &c.                                                       |
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| Genus <b>Micraster</b> , <i>L. Agassiz</i> , 1835. (Prodrome, Mém. Soc. Sci. Neuchatel, i. p. 184; <i>Schizaster</i> , pars, A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 157.)<br><i>Petalosticha-Spatangidæ</i> . |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>M. brevistella</i> ,<br><i>Laube</i> .                                                                                                                                                                                  | Murray River Series; Table Cape Series (L. or M. Ter.?). | *Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 192, f. 7; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 447, 448, f. 11 and 12; Duncan, <i>ibid.</i> 1877, XXXIII. p. 68; Johnston, *Notes Tertiary Beds, Table Cape, Tas. p. 64. | Murray R. Cliffs,<br><i>S. Australia</i> .<br>Table Cape, <i>Tas.</i> |
| <i>M. Etheridgei</i> , <i>Johnston</i> .                                                                                                                                                                                   | Table Cape Series (M. or L. Ter.?).                      | *Notes Tertiary Beds, Table Cape, Tas. p. 64.                                                                                                                                                                                                | Table Cape, <i>Tas.</i>                                               |
| Genus <b>Monostychia</b> , <i>Laube</i> , 1869. (Sitz. K. Akad. Wissensch. Wien, LIX. p. 188.)<br><i>Vide Arachnoides</i> .                                                                                                |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>M. Australis</i> , <i>Laube</i> .                                                                                                                                                                                       |                                                          | <i>Vide Arachnoides Australis</i> .                                                                                                                                                                                                          |                                                                       |
| Genus <b>Paradoxechinus</b> , <i>Laube</i> , 1869. (Sitz. K. Akad. Wissensch. LIX. p. 186.)<br><i>Desmosticha-Echinidæ</i> .                                                                                               |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>P. novus</i> , <i>Laube</i> .                                                                                                                                                                                           | Murray River Series (M. or L. Ter.?).                    | * <i>loc. cit.</i> p. 188, f. 2; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, XXXI. p. 449; <i>Temnechinus</i> ? Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. p. 65.                                                                       | Murray R. Cliffs,<br><i>S. Australia</i> .                            |
| ?Genus <b>Psammechinus</b> , <i>L. Agassiz</i> , 1846. (Ann. Sci. Nat. 3rd series, VI. p. 368; A. Agassiz, Revision Echini, pt. 3, 1873, p. 490.)— <i>Desmosticha-Echinidæ</i> .                                           |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>P. Woodsi</i> , <i>Laube</i> .                                                                                                                                                                                          | Murray River Series (M. or L. Ter.?).                    | *Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 185, f. 1; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 447, 449, t. 21, f. 10; Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. p. 64.                                              | Murray R. Cliffs,<br><i>S. Australia</i> .                            |
| Genus <b>Pygorhynchus</b> , <i>L. Agassiz</i> , 1839. (Descrip. Echinod. Foss. Suiss. pt. 1, p. 53; Desor, Synopsis, 1857, p. 297.)— <i>Petalosticha-Nucleolidæ</i> .                                                      |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>P. Vassali</i> , <i>Wright</i> .                                                                                                                                                                                        |                                                          | *Quart. Jour. Geol. Soc. 1864, XX. p. 479, t. 22, f. 6 a-c; Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 51 and 67.                                                                                                                     | E. of Glenelg R.<br><i>Vict.</i>                                      |
| Genus <b>Rhynchopygus</b> , <i>d'Orbigny</i> , 1855. (Pal. Franç. Terr. Crét. VI. p. 323; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 67, 153, 342, pt. 3, 1873, p. 553.)<br><i>Petalosticha-Nucleolidæ</i> .     |                                                          |                                                                                                                                                                                                                                              |                                                                       |
| <i>R. dysasteroides</i> ,<br><i>Duncan</i> .                                                                                                                                                                               |                                                          | *Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 49 and 66, t. 3, f. 9 and 10.                                                                                                                                                                     | Cape Otway, <i>Vict.</i>                                              |

## (Echinodermata—Annelida.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                   | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                       | Localities, &c.                               |
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| Genus <b>Salenia</b> , <i>Gray</i> , 1835 (Proc. Zool. Soc. 1835, p. 58; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 155 and 258, pt. 3, 1873, p. 398)= <i>Salenocidaris</i> , A. Agassiz.<br><i>Desmosticha-Salenidæ</i> . |                     |                                                                                                                                                                                                                                                                                                                   |                                               |
| <i>S. tertiaria</i> , <i>Tate</i> .                                                                                                                                                                                                  | L. Tertiary.        | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 257, 258, f. 2 a—c; Duncan, Annals Nat. Hist. 1877, xx. p. 246.                                                                                                                                                                                                        | Aldinga, <i>S. Austr.</i>                     |
| Genus <b>Schizaster</b> , <i>L. Agassiz</i> , 1835. (Prodrome, Mém. Sci. Nat. Neuchatel, i. p. 185; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 157, 363, pt. 3, 1873, p. 609.)<br><i>Petalosticha-Spatangidæ</i> .         |                     |                                                                                                                                                                                                                                                                                                                   |                                               |
| <i>S. ventricosus</i> , <i>Gray</i> .                                                                                                                                                                                                |                     | *Brit. Mus. Cat. Recent. Ech. 1855, p. 60, t. 4, f. 2; Annals Nat. Hist. 1851, vii. p. 133; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 158; <i>Schizaster</i> , sp. Duncan, Annals Nat. Hist. 1864, xiv. p. 168; <i>S. ventricosus</i> , <i>id.</i> Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 61 and 68. | 'Adelaide District,'<br><i>S. Australia</i> . |
| Genus <b>Scutella</b> , <i>Lamarck</i> , 1816. (Histoire Nat. Anim. s. Vertèb. iii. p. 7; Desor, Synopsis, 1857, p. 231.)— <i>Clypeastridæ-Scutellidæ</i> .                                                                          |                     |                                                                                                                                                                                                                                                                                                                   |                                               |
| <i>S. Tamboensis</i> ,<br><i>M' Coy</i> .                                                                                                                                                                                            | .                   | Smyth's Progress Report, 1874, p. 36; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxxi. p. 450.                                                                                                                                                                                                                 | Victoria.                                     |
| Genus <b>Spatangus</b> , <i>Klein</i> , 1734. (Nat. Disp. Ech. p. 33; A. Agassiz, Revision, 1872, pts. 1 and 2, p. 158, 1873, pt. 3, p. 564.)— <i>Petalosticha-Spatangidæ</i> .                                                      |                     |                                                                                                                                                                                                                                                                                                                   |                                               |
| <i>S. Forbesii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                          |                     | Vide <i>Lovenia Forbesii</i> , Woods and Duncan.                                                                                                                                                                                                                                                                  |                                               |
| <i>S. Hoffmanni</i> , <i>Sturt</i><br>(non <i>Goldf.</i> ).                                                                                                                                                                          |                     | Vide <i>Lovenia Forbesii</i> , Woods and Duncan.                                                                                                                                                                                                                                                                  |                                               |
| Genus <b>Temnechinus</b> , <i>Forbes</i> , 1852 (Mon. Brit. Tert. Ech. p. 5; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 165, 1873, pt. 3, p. 466)= <i>Genocidaris</i> , A. Agassiz.<br><i>Desmosticha-Echinidæ</i> .        |                     |                                                                                                                                                                                                                                                                                                                   |                                               |
| <i>T. lineatus</i> , <i>Duncan</i> .                                                                                                                                                                                                 | Up. Ter.?           | *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 46 and 65, t. 3, f. 3—5.                                                                                                                                                                                                                                               | Mordialloc, <i>Vict.</i>                      |

## Sub-kingdom—Annulosa. Class—Annelida.

Genus **Ditrupa**, *Berkeley*, 1834. (Zool. Jour. v. p. 426.)—*Tubicola*.

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| <i>D. Wormbetiensis</i> ,<br><i>M' Coy</i> . | Oldest G. D.<br>(=L. Pliocene?). | Smyth's Progress Report, 1875, ii. p. 22, f. 4; Couchman's <i>ibid.</i> 1877, iv. p. 155. | Welcome Rush, nr. Stawell, <i>Vict.</i> |
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## (Crustacea—Polyzoa.)

## (Tertiary.)

| Genus and Species.                                                                | Strat. Subdivision. | References.                                                                                                                                                                                                                                          | Localities, &c.                |
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| <i>Class</i> —Crustacea. <i>Sub-class</i> —Entomostraca. <i>Order</i> —Ostracoda. |                     |                                                                                                                                                                                                                                                      |                                |
| Genus <b>Bairdia</b> , M'Coy, 1844 (see p. 41).— <i>Podocopa-Cypridæ</i> .        |                     |                                                                                                                                                                                                                                                      |                                |
| <i>B. ovata</i> , Bosquet.                                                        | M. Ter. (Miocene?). | <i>Cytheridea</i> , Bosquet, Mon. Crust. Foss. Terr. Crét. Limbourg, 1854, p. 73, t. 5, f. 6 a—d; <i>Bairdia</i> , G. S. Brady, Trans. Zool. Soc. 1865, v. p. 364, t. 57, f. 7 a—c; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335. | Murray R. Flats, S. Australia. |

Genus **Cythere**, O. F. Müller, 1875 (see p. 42).—*Podocopa-Cytheridæ*.

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| <i>C. Normani</i> , G. S. Brady. | M. Ter. (Miocene?). | *Trans. Zool. Soc. 1865, v. p. 379, t. 61, f. 5 a—d; Etheridge, jun. Geol. Mag. Dec. 2, iii. 1876, p. 335. | Murray R. Flats, S. Australia. |
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Genus **Macrocypris**, G. S. Brady, 1868. (Intellectual Observer, xii. p. 119; Trans. Linn. Soc. xxvi. p. 391.)—*Podocopa-Cypridæ*.

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| <i>M. acuminata</i> , Alth. | M. Ter. (Miocene?). | <i>Cytherina</i> , Haidinger's Naturwiss. Abhandl. 1849, iii. p. 198, t. 10, f. 16; <i>id.</i> Reuss, <i>ibid.</i> iv. p. 49, t. 5, f. 7 and 8; <i>Macrocypris</i> , (Brady), Etheridge, jun. Geol. Mag. Dec. 2, 1876, iii. p. 335. | Murray R. Flats, S. Australia. |
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Genus **Paracypris**, G. O. Sars, 1865. (Forhandl. Vid.-Sels. Christiania, aar 1865, p. 11; Brady, Trans. Linn. Soc. xxvi. p. 377.)—*Podocopa-Cypridæ*.

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| <i>P. decora</i> , G. S. Brady. | M. Ter. (Miocene?). | <i>Cytheredeis</i> , Trans. Zool. Soc. 1865, v. pt. 5, p. 366; <i>Paracypris</i> , Etheridge, jun. (fide Brady), Geol. Mag. Dec. 2, 1876, iii. p. 335. | Murray R. Flats, S. Australia. |
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*Sub-kingdom*—Mollusca. *Section*—Molluscoida. *Class*—Polyzoa.

*Order*—Gymnolemata.

Genus **Caberea**, Lamouroux, 1816 (Hist. Polyp. Coral. Flex. p. 128) = *Selbia*, Gray. *Cheilostomata-Inarticulata*.

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| <i>C. lata</i> , Busk. | Mt. Gambier Series (Lor. M. Ter.?). | *Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 39, t. 47; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 11; R. Etheridge, jun. Synopsis, Austr. Tert. Polyzoa, 1877, p. 7. | Mount Gambier, S. Australia. |
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## (Polyzoa.)

## (Tertiary.)

| Genus and Species.                                                                                                                          | Strat. Subdivision.                                     | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Genus <b>Canda</b> , Lamouroux, 1816. (Hist. Polyp. Coral. Flex. p. 131.)<br><i>Cheilostomata-Articulata</i> .                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| <i>C. angulata</i> , Busk.                                                                                                                  | Mt. Gambier Series (L. or M. Ter.?).                    | Quart. Jour. Geol. Soc. 1860, xvi. p. 260; Woods, *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 2; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mount Gambier, S. Australia.                                                        |
| Genus <b>Cellepora</b> , O. Fabricius, 1780 (Fauna Gröen. p. 434) = <i>Celleporaria</i> , Lamouroux.<br><i>Cheilostomata-Inarticulata</i> . |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| <i>C. costata</i> , Busk (ms.).                                                                                                             | Mt. Gambier Series.                                     | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mount Gambier, S. Australia.                                                        |
| <i>C. echinata</i> , Sturt.                                                                                                                 | Mt. Gambier Series; Murray R. Series (L. or M. Ter.?).  | *Two Expds. Int. S. Austr. 1832, ii. p. 252, t. 3, f. 4 (non <i>C. echinata</i> , Münster, *Goldfuss, Petrefacta, i. p. 102, t. 36, f. 14); Etheridge, jun. <i>loc. cit.</i> p. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mount Gambier; Murray Cliffs, S. Australia.                                         |
| <i>C. escharoides</i> , Sturt (non Goldf.).                                                                                                 |                                                         | Vide <i>C. hemisphærica</i> , Busk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |
| <i>C. Gambierensis</i> , Busk.                                                                                                              | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?). | <i>Eschara celleporacea</i> , Sturt, *Two Expds. Int. S. Austr. 1832, ii. p. 253, t. 3, f. 1; <i>C. Gambierensis</i> , Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>ibid.</i> Woods, Geol. Obs. S. Austr. 1862, pp. 74, 85, 91, <i>cuts</i> ; <i>ibid.</i> id. *Trans. R. Soc. Vict. vi. p. 4; <i>ibid.</i> Wilkinson, Geol. Rept. Cape Otway Dist. 1865, p. 23; <i>ibid.</i> M'Coy, Smyth's Progress Rept. 1874, p. 36; <i>Celleporaria</i> , Stoliczka, Pal. Neuseeland, 1865, p. 141, t. 20, f. 7; <i>Cellepora</i> , Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 14; Etheridge, jun. <i>loc. cit.</i> p. 7. | Mount Gambier; Murray Cliffs, S. Australia.<br>Spring Creek, Vict. Table Cape, Tas. |
| <i>C. hemisphærica</i> , Busk.                                                                                                              | Mt. Gambier Series (L. or M. Ter.?).                    | *Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 3; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 4; Etheridge, jun. <i>loc. cit.</i> p. 8; ? <i>C. escharoides</i> , Sturt, (non Goldf.), *Two Expds. Int. S. Austr. 1832, ii. t. 3, f. 5.                                                                                                                                                                                                                                                                                                                                  | Mount Gambier, S. Australia.                                                        |
| <i>C. nummularia</i> , Busk.                                                                                                                | Mt. Gambier Series; Hamilton Series (L. or M. Ter.?).   | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 1; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 5?; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. <i>loc. cit.</i> p. 8.                                                                                                                                                                                                                                                                                                              | Mount Gambier, S. Australia.<br>Muddy Ck. ?Vict. Table Cape, Tas.                   |

## (Polyzoa.)

## (Tertiary.)

| Genus and Species.                  | Strat. Subdivision.                                     | References.                                                                                                                                                                                                                                                              | Localities, &c.                                                 |
|-------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <i>C. spongiosa</i> , <i>Busk</i> . | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 2; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 7; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 8. | Mount Gambier, <i>S. Australia</i> .<br>Table Cape, <i>Tas.</i> |
| <i>C. tubulosa</i> , <i>Busk</i> .  | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Trans. R. Soc. Vict. 1865, vi. p. 5, t. 1, f. 6; Etheridge, jun. <i>loc. cit.</i> p. 8.                                                                                                                               | Mount Gambier, <i>S. Australia</i> .                            |

Genus *Cœleschera*, *Busk*, 1860. (Quart. Jour. Geol. Soc. xvi. p. 261.)  
*Cheilostomata-Inarticulata*.

|                                          |                     |                                                             |                                      |
|------------------------------------------|---------------------|-------------------------------------------------------------|--------------------------------------|
| <i>C. Australis</i> , <i>Busk</i> (ms.). | Mt. Gambier Series. | <i>l. c.</i> p. 261; Etheridge, jun. <i>loc. cit.</i> p. 8. | Mount Gambier, <i>S. Australia</i> . |
|------------------------------------------|---------------------|-------------------------------------------------------------|--------------------------------------|

Genus *Crisia*, *Lamourour*, 1812. (Bull. des Sc. Soc. Philomatique, iii. p. 183.)  
*Cyclostomata-Articulata*.

|                                      |                                      |                                                                                                                                                                                                                                                                                                                   |                                      |
|--------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>C. eburnea</i> , <i>Linnæus</i> . | Mt. Gambier Series (L. or M. Ter.?). | Johnston's *Brit. Zoophytes, 1847, i. p. 283, t. 50, f. 3 and 4; Woods, Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 12; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Busk, Brit. Mus. Cat. Polyzoa, 1875, pt. 3, p. 4, t. 2, f. 1 and 2, t. 5, f. 1 and 2, 5 and 10; Etheridge, jun. <i>loc. cit.</i> p. 12. | Mount Gambier, <i>S. Australia</i> . |
|--------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|

Genus *Eschara*, *Ray* (pars), 1724! (Lamarck, Système, 1801, p. 375; *id.* Histoire, 1816, ii. p. 173; Busk, Mon. Foss. Polyzoa, Crag. 1859, p. 63.)  
*Cheilostomata-Inarticulata*.

|                                              |                     |                                                               |                                      |
|----------------------------------------------|---------------------|---------------------------------------------------------------|--------------------------------------|
| <i>E. arcuata</i> , <i>Busk</i> (ms.).       | Mt. Gambier Series. | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                    | Mount Gambier, <i>S. Australia</i> . |
| <i>E. bimarginata</i> , <i>Busk</i> (ms.).   | Mt. Gambier Series. | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                    | Mount Gambier, <i>S. Australia</i> . |
| <i>E. Buskii</i> , <i>Tenison-Woods</i> .    | Mt. Gambier Series. | *Jour. R. Soc. N. S. Wales, 1877, x. p. 149, figs. 16 and 17. | Mount Gambier, <i>S. Australia</i> . |
| <i>E. cavernosa</i> , <i>Tenison-Woods</i> . | Mt. Gambier Series. | *Jour. R. Soc. N. S. Wales, 1877, x. p. 147, f. 1.            | Mount Gambier, <i>S. Australia</i> . |
| <i>E. celleporacea</i> , <i>Sturt</i> .      |                     | Vide <i>Cellepora Gambierensis</i> , Busk.                    |                                      |
| <i>E. Clarkei</i> , <i>Tenison-Woods</i> .   | Hamilton Series.    | *Jour. R. Soc. N. S. Wales, 1877, x. p. 148, figs. 4—7.       | Muddy Ck. <i>Vict.</i>               |
| <i>E. elevata</i> , <i>Tenison-Woods</i> .   | Mt. Gambier Series. | *Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 10.           | Mount Gambier, <i>S. Australia</i> . |
| <i>E. hastigera</i> , <i>Busk</i> (ms.).     | Mt. Gambier Series. | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                    | Mount Gambier, <i>S. Australia</i> . |

## (Polyzoa.)

## (Tertiary.)

| Genus and Species.                             | Strat. Subdivision.                   | References.                                                                                                 | Localities, &c.                         |
|------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <i>E. inornata</i> , <i>Busk</i> (ms.).        | Mt. Gambier Series.                   | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                                                                  | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. Liversidgei</i> , <i>Tenison-Woods</i> . | Mt. Gambier Series.                   | *Jour. R. Soc. N. S. Wales, 1877, x. p. 149; f. 11—13.                                                      | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. oculata</i> , <i>Busk</i> (ms.).         | Mt. Gambier Series (L. or M. Ter.?).  | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Jour. R. Soc. N. S. Wales, 1877, x. p. 149, f. 14.       | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. papillata</i> , <i>Busk</i> (ms.).       | Mt. Gambier Series.                   | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                                                                  | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. piriformis</i> , <i>Sturt</i> .          | Murray River Series (L. or M. Ter.?). | Two Expeds. Int. S. Austr. 1832, ii. p. 253, t. 3, f. 2 (?non Goldfuss, Petrefacta, i. p. 24, t. 8, f. 10). | Murray R. Cliffs, <i>S. Australia</i> . |
| <i>E. porrecta</i> , <i>Tenison-Woods</i> .    | Mt. Gambier Series.                   | *Jour. R. Soc. N. S. Wales, 1877, x. p. 147, f. 2 and 3.                                                    | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. rustica</i> , <i>Tenison-Woods</i> .     | Mt. Gambier Series.                   | *Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 9.                                                          | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. simplex</i> , <i>Busk</i> (ms.).         | Mt. Gambier Series.                   | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                                                                  | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. Tatei</i> , <i>Tenison-Woods</i> .       | Mt. Gambier Series.                   | *Jour. R. Soc. N. S. Wales, 1877, x. p. 149, f. 15.                                                         |                                         |
| <i>E. verrucosa</i> , <i>Tenison-Woods</i> .   | Mt. Gambier Series.                   | *Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 8.                                                          | Mount Gambier, <i>S. Australia</i> .    |
| <i>E. sp. ind.</i>                             | Murray River Series.                  | Sturt, Two Expeds. Int. S. Austr. 1832, ii. 253, t. 3, f. 3.                                                | Murray R. Cliffs, <i>S. Australia</i> . |
| <i>E. sp. ind.</i>                             | Mt. Gambier Series.                   | Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 7.                                                               | Mount Gambier, <i>S. Australia</i> .    |

Genus **Hornera**, *Lamouroux*, 1821 (Expos. Méthod. p. 41) = *Siphodictyum*, *Lonsdale*.  
*Cyclostomata-Inarticulata*.

|                                        |                                      |                                                                                                                                                                                                                                                          |                                      |
|----------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>H. Gambierensis</i> , <i>Busk</i> . | Mt. Gambier Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 10?; ? <i>Retepora disticha</i> , Sturt, Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 6; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 13. | Mount Gambier, <i>S. Australia</i> . |
| <i>H. rugulosa</i> , <i>Busk</i> .     | Mt. Gambier Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 9?; Etheridge, jun. loc. cit. p. 13.                                                                                                                           | Mount Gambier, <i>S. Australia</i> . |

Genus **Idmonea**, *Lamouroux*, 1821. (Expos. Méthod. p. 80, Supp.)  
*Cyclostomata-Inarticulata*.

|                                         |                                      |                                                                                                                        |                                      |
|-----------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>I. ligulata</i> , <i>Busk</i> (ms.). | Mt. Gambier Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Stoliczka, Pal. Neu-Seeland, 1865, p. 114; Etheridge, jun. loc. cit. p. 13. | Mount Gambier, <i>S. Australia</i> . |
|-----------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------|

## (Polyzoa.)

## (Tertiary.)

| Genus and Species.                 | Strat. Subdivision.                  | References.                                                                                                                                                                                                                                                                                                                           | Localities, &c.                      |
|------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>I. Milneana</i> , <i>d'Orb.</i> | Mt. Gambier Series (L. or M. Ter.?). | *Voy. l'Amér. Mérid. v. pt. 4, p. 20, Atlas, ix. <i>Polypiers</i> , f. 17—21; Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, <i>id.</i> 1865, xxi. p. 394; Stoliczka, Pal. Neu-Seeland, 1865, p. 114; Busk, *Brit. Mus. Cat. Polyzoa, 1875, pt. 3, p. 12, t. 11; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 13. | Mount Gambier, <i>S. Australia</i> . |

Genus *Lepralia*, Johnston (see p. 105).—*Cheilostomata-Inarticulata*.

|                                             |                                             |                                                                                                                                                                       |                                         |
|---------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <i>L. doliiformis</i> , <i>Busk</i> (ms.).  | Mt. Gambier Series (L. or M. Ter.?).        | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 10.                                                                                    | Mount Gambier, <i>S. Australia</i> .    |
| <i>L. Stawellensis</i> , <i>M'Coy</i> .     | U. Ter. (Old-est G. Drifts = L. Pliocene?). | *Smyth's Progress Rept. 1875, ii. p. 22, f. 1; <i>id. ibid.</i> 1876, iii. p. 49; Couchman's Progress Rept. 1877, iv. p. 155; Etheridge, jun. <i>loc. cit.</i> p. 10. | Welcome Rush, nr. Stawell, <i>Vict.</i> |
| <i>L. subcarinata</i> , <i>Busk</i> (ms.).  | Mt. Gambier Series.                         | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                                                                                                                            | Mount Gambier, <i>S. Australia</i> .    |
| <i>L. submarginata</i> , <i>Busk</i> (ms.). | Mt. Gambier Series.                         | Quart. Jour. Geol. Soc. 1860, xvi. p. 261.                                                                                                                            | Mount Gambier, <i>S. Australia</i> .    |

Genus *Lunulites*, Lamarck, 1816. (Hist. Nat. Anim. s. Vertèb. ii. p. 194; Busk, Mon. Foss. Polyzoa, Crag. 1859, pp. 84 and 88).—*Cheilostomata-Inarticulata*.

|                    |                  |                                                   |                        |
|--------------------|------------------|---------------------------------------------------|------------------------|
| <i>L. sp. ind.</i> | Hamilton Series. | Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394. | Hamilton, <i>Vict.</i> |
|--------------------|------------------|---------------------------------------------------|------------------------|

Genus *Melicerita*, M. Edwards, 1836 (Ann. Sc. Nat. vi. p. 347) = *Ulidium*, S. V. Wood. *Cheilostomata-Inarticulata*.

|                                       |                                                       |                                                                                                                                                                                                                                                                                                         |                                                                   |
|---------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <i>M. angustiloba</i> , <i>Busk</i> . | Mt. Gambier Series; Hamilton Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 4; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 8; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Stoliczka, *Pal. Neu-Seeland, p. 155, t. 20, figs. 15—18; Etheridge, jun. <i>loc. cit.</i> p. 10. | Mount Gambier, <i>S. Australia</i> .<br>Muddy Creek, <i>Vict.</i> |
|---------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

Genus *Membranipora*, de Blainville, 1830. (Diet. Sc. Nat. lx. p. 411; Busk, Mon. Foss. Polyzoa, Crag. 27 and 28).—*Cheilostomata-Inarticulata*.

|                                         |                                      |                                                                                                                                            |                                      |
|-----------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>M. appressa</i> , <i>Busk</i> (ms.). | Mt. Gambier Series.                  | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 11.                                                         | Mount Gambier, <i>S. Australia</i> . |
| <i>M. bidens</i> , <i>Hagenow</i> .     | Mt. Gambier Series (L. or M. Ter.?). | *Bryozoa Maës. Kreideb. p. 9, t. 11, f. 16; Busk, *Mon. Foss. Polyzoa, Crag. 1852, pt. 1, p. 34, t. 2, f. 4; <i>id.</i> Quart. Jour. Geol. | Mount Gambier, <i>S. Australia</i> . |

## (Polyzoa.)

## (Tertiary.)

| Genus and Species.                   | Strat. Subdivision.                  | References.                                                                                                                                                                                                                                                                                                        | Localities, &c.                                    |
|--------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <i>M. Cyclops</i> , <i>Busk</i> .    | Mt. Gambier Series (L. or M. Ter.?). | Soc. 1860, xvi. p. 260; Woods, <i>ibid.</i> 1865, xxi. p. 394; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 11.<br>*Brit. Mus. Cat. Polyzoa, 1854, pt. 2, p. 61, t. 65, f. 3; Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, <i>ibid.</i> 1865, xxi. p. 391; Etheridge, jun. <i>loc. cit.</i> p. 11. | Mount Gambier, S. Australia.<br>Muddy Creek, Vict. |
| <i>M. stenostoma</i> , <i>Busk</i> . | Mt. Gambier Series (L. or M. Ter.?). | *Brit. Mus. Cat. Polyzoa, 1854, pt. 2, p. 60, t. 100, f. 1; Quart. Jour. Geol. Soc. 1860, xvi. p. 260; Woods, <i>ibid.</i> 1865, xxi. p. 394; Etheridge, jun. <i>loc. cit.</i> p. 11.                                                                                                                              | Mount Gambier, S. Australia.                       |

Genus *Onchopora*, *Busk*, 1855. (Quart. Jour. Micro. Sc. iii. p. 320.)  
*Cheilostomata-Articulata*.

|                                               |                                             |                                                                                                                                                                                         |                                      |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <i>O. pustulosa</i> , <i>Busk</i> .           | Mt. Gambier Series (L. or M. Ter.?).        | Quart. Jour. Geol. Soc. 1860, xvi. p. 260; ? <i>Cellaria</i> , <i>Stoliczka</i> , Pal. Neu-Seeland, 1865, p. 149; Etheridge, jun. <i>loc. cit.</i> p. 5.                                | Mount Gambier, S. Australia.         |
| <i>O. vertebralis</i> ,<br><i>Stoliczka</i> . | Schnapper Pt. Series = Oligocene (L. Ter.). | <i>Spiroporina</i> , *Pal. Neu-Seeland, 1865, p. 106, t. 17, f. 6 and 7; R. Etheridge, jun. Trans. R. Soc. Vict. 1874, xi. p. 14; <i>id.</i> Synopsis Austr. Tert. Polyzoa, 1877, p. 6. | Schnapper Point, Hobson's Bay, Vict. |

Genus *Psileschara*, *Busk*, 1860. (Quart. Jour. Geol. Soc. xvi. p. 261; Quart. Jour. Micro. Sc. 1861, n. ser. i. p. 79.)—*Cheilostomata-Inarticulata*.

|                                           |                     |                      |                              |
|-------------------------------------------|---------------------|----------------------|------------------------------|
| <i>P. pustulosa</i> , <i>Busk</i> (ms.).  | Mt. Gambier Series. | <i>l. c.</i> p. 261. | Mount Gambier, S. Australia. |
| <i>P. subsulcata</i> , <i>Busk</i> (ms.). | Mt. Gambier Series. | <i>l. c.</i> p. 261. | Mount Gambier, S. Australia. |

Genus *Pustulipora*, *de Blainville*, 1830. (Dict. Sc. Nat. p. 382.)  
*Cyclostomata-Inarticulata*.

|                                              |                                      |                                                                                                                                                                                  |                              |
|----------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <i>P. corrugata</i> , <i>Tenison-Woods</i> . | Mt. Gambier Series.                  | *Jour. R. Soc. N. S. Wales, 1877, x. p. 150.                                                                                                                                     | Mount Gambier, S. Australia. |
| <i>P. distans</i> , <i>Busk</i> (ms.).       | Mt. Gambier Series (L. or M. Ter.?). | Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 13; (? = <i>Entalophora Haastiana</i> , Stol. Pal. Neu-Seeland, 1865, p. 102, t. 17, f. 4 and 5.) | Mount Gambier, S. Australia. |
| <i>P. unguolata</i> , <i>Tenison-Woods</i> . | Mt. Gambier Series.                  | *Jour. R. Soc. N. S. Wales, 1877, x. p. 150.                                                                                                                                     | Mount Gambier, S. Australia. |

| (Polyzoa.)                                                                                                                                             |                                                                                                | (Tertiary.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Genus and Species.                                                                                                                                     | Strat. Subdivision.                                                                            | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Localities, &c.                                                                                    |
| Genus <i>Retepora</i> , <i>Imperato</i> , 1672. (Hist. Nat. p. 630; Busk, Mon. Foss. Polyzoa, Crag. 1859, p. 73.)— <i>Cheilostomata-Inarticulata</i> . |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                    |
| <i>R. disticha</i> , <i>Sturt</i> .                                                                                                                    |                                                                                                | ?Vide <i>Hornera Gambierensis</i> , Busk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                    |
| <i>R. Maccoyana</i> , <i>Etheridge, jun.</i>                                                                                                           | Schnapper Pt. Series = Oligocene (L. Ter.).                                                    | Smyth's Progress Report, 1874, i. pp. 35 and 36; Etheridge, jun. *Trans. R. Soc. Vict. 1874, xi. p. 14; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Schnapper Point, Vict.                                                                             |
| <i>R. monilifera</i> , <i>P. H. M'Gillivray</i> .                                                                                                      | Mt. Gambier Series (L. or M. Ter.?).                                                           | *Trans. Phil. Inst. Vict. 1860, iv. pt. 2, p. 168, t. 3, f. 6—9; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Etheridge, jun. loc. cit. p. 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mount Gambier, S. Australia.                                                                       |
| <i>R. vibicata</i> , <i>Sturt</i> (non <i>Goldfuss</i> ).                                                                                              | Mt. Gambier Series (L. or M. Ter.?).                                                           | Two Expds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 7; <i>Retepora</i> , sp. Woods, Geol. Obs. S. Austr. 1862, p. 74 (? = <i>R. Beaniana</i> (King), Stoliczka, *Pal. Neu-Seeland, 1865, p. 124); Etheridge, jun. loc. cit. p. 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Murray Riv. Cliffs, and Mt. Gambier, S. Australia.                                                 |
| Genus <i>Salicornaria</i> , <i>Cuvier</i> , 1817 (Règne Anim. rv. p. 75) = <i>Farcimia</i> , <i>Fleming</i> .<br><i>Cheilostomata-Articulata</i> .     |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                    |
| <i>S. gracilis</i> , <i>Busk</i> .                                                                                                                     | Mt. Gambier Series (L. or M. Ter.?).                                                           | *Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 17, t. 63, f. 3, t. 65 (bis), f. 2; Woods, Trans. R. Soc. Vict. vi. p. 4; Etheridge, jun. loc. cit. p. 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mount Gambier, S. Australia.                                                                       |
| <i>S. Parkeri</i> , <i>Busk</i> (ms.).                                                                                                                 | Mt. Gambier Series.                                                                            | Quart. Jour. Geol. Soc. 1860, xvi. p. 260.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mount Gambier, S. Australia.                                                                       |
| <i>S. sinuosa</i> , <i>Hassall</i> .                                                                                                                   | Mt. Gambier Series; Hamilton Series; Table Cape Series; Murray Cliffs Series (L. or M. Ter.?). | <i>Farcimia</i> , *Annals Nat. Hist. 1841, vi. p. 172, t. 6, figs. 1 and 2; <i>S. farciminoides</i> (var.), Busk, *Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 16; <i>S. sinuosa</i> , <i>ibid.</i> *Mon. Foss. Polyzoa, Crag. 1859, p. 23, t. 21, f. 5; <i>Glauconome rhombifera</i> , Sturt, *Two Expds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 5; <i>S. sinuosa</i> , Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 260; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 5; <i>id. ibid.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id. ibid.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 1; Johnston, Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. loc. cit. p. 6. | Mount Gambier; Cliffs of Murray River, S. Austr. Muddy Creek, nr. Hamilton, Vict. Table Cape, Tas. |
| <i>S. tenuirostris</i> , <i>Busk</i> .                                                                                                                 | Mt. Gambier Series (L. or M. Ter.?).                                                           | *Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 17, t. 63, f. 4; Woods, Trans. R. Soc. Vict. vi. p. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mount Gambier, S. Australia.                                                                       |

## (Polyzoa—Brachiopoda.)

## (Tertiary.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

Genus *Scutularia*, *Busk* (ms.), 1860. (Quart. Jour. Geol. Soc. xvi. 261.)  
*Cheilostomata-Inarticulata.*

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|--------------------------------------|---------------------|----------------------|-------------------------------------|
| <i>S. prima</i> , <i>Busk</i> (ms.). | Mt. Gambier Series. | <i>l. c.</i> p. 261. | Mount Gambier, <i>S. Australia.</i> |
|--------------------------------------|---------------------|----------------------|-------------------------------------|

Genus *Tubulipora*, *Lamarck*, 1816. (Histoire Nat. Anim. s. Vertèb. ii. p. 161;  
*Busk*, Mon. Foss. Polyzoa, Crag. 1859, p. 110.)—*Cyclostomata-Tubuliporidae.*

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|---------------------------------------------------|---------------------|----------------------------------------------------------|-------------------------------------|
| <i>T. Gambierensis</i> ,<br><i>Tenison-Woods.</i> | Mt. Gambier Series. | * <i>Jour. R. Soc. N. S. Wales</i> , 1877,<br>x. p. 150. | Mount Gambier, <i>S. Australia.</i> |
|---------------------------------------------------|---------------------|----------------------------------------------------------|-------------------------------------|

## Class—Brachiopoda.

Genus *Rhynchonella*, *Fischer*, 1809 (see p. 21).—*Clistenterata-Rhynchonellidae.*

|                                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                           |                                   |
|----------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <i>R. cælata</i> , <i>M'Coy</i> (ms.). |                                     | <i>Fide Woods (in lit.).</i>                                                                                                                                                                                                                                                                                                                                                              |                                   |
| <i>R. lucida</i> , <i>Gould.</i>       | Table Cape Series (L. or M. Ter.?). | * <i>Proc. Boston Nat. Hist. Soc.</i> 1860, vii. p. 323; <i>A. Adams</i> , * <i>Annals Nat. Hist.</i> 1863, xi. p. 100; <i>Davidson</i> , <i>Proc. Zool. Soc.</i> 1871, p. 309, t. 31, f. 13 and 14; <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1867, xx. p. 195; <i>id.</i> <i>Smyth's Progress Report</i> , 1874, p. 36; <i>Woods</i> , <i>Proc. R. Soc. Tas.</i> (for 1875), 1876, p. 15. | Table Cape, <i>Tas. Victoria.</i> |

Genus *Terebratella*, *d'Orbigny*, 1847. (Comptes Rendus, xxv. p. 269; *Davidson*, Introduction, p. 65.)—*Clistenterata-Terebratulidae.*

|                                            |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   |
|--------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <i>T. compta</i> , <i>G. B. Sowerby.</i>   | Mt. Gambier Series (L. or M. Ter.), &c. | <i>Terebratula</i> , <i>sp.</i> Sturt, Two Expds. Int. S. Australia, 1832, ii. p. 254, t. 3, f. 15; <i>T. compta</i> , <i>G. B. Sow.</i> * <i>Strzelecki's Phys. Descript. N. S. Wales, &amp;c.</i> 1845, p. 297, t. 19, f. 4; <i>id.</i> <i>Woods</i> , <i>Geol. Obs. S. Austr.</i> 1862, pp. 74 and 121, figs.; <i>id. ibid.</i> * <i>Tert. Rocks</i> , S. Australia, pt. 3, Brachiopoda, f. 4 A to E; <i>Terebratella</i> , <i>R. Etheridge</i> , jun. * <i>Annals Nat. Hist.</i> 1876, xvii. p. 19, t. 2, f. 5 a—d. | Mount Gambier, <i>S. Australia.</i><br>Spring Creek, <i>Vict.</i> |
| <i>T. Tenisoni</i> , <i>Tenison-Woods.</i> | Mt. Gambier Series (L. or M. Ter.?).    | * <i>Tert. Rocks of S. Australia</i> , pt. 3, Brachiopoda, f. 5, A to E, and f. 6; <i>Johnston</i> , Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31.                                                                                                                                                                                                                                                                                                                                                                   | Mount Gambier, <i>S. Australia.</i>                               |

## (Brachiopoda.)

## (Tertiary.)

| Genus and Species.                                                                            | Strat. Subdivision. | References.                                     | Localities, &c.  |
|-----------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------|------------------|
| <b>Genus <i>Terebratula</i>, Lloyd, 1699 (see p. 61).—<i>Clistenterata-Terebratulidæ</i>.</b> |                     |                                                 |                  |
| <i>T. compta</i> , G. B. Sowerby.                                                             |                     | Vide <i>Terebratella</i> .                      |                  |
| <i>T. Corioensis</i> , M'Coy (ms.).                                                           |                     | Vide <i>Waldheimia Gambierensis</i> , Eth. jun. |                  |
| <i>T. Tateana</i> , Tenison-Woods.                                                            | Table Cape Series.  | Fide <i>Woods</i> (in lit.).                    | Table Cape, Tas. |
| <i>T. vitreoides</i> , Tenison-Woods.                                                         | Table Cape Series.  | Fide <i>Woods</i> (in lit.).                    | Table Cape, Tas. |

Genus *Terebratulina*, d'Orbigny, 1847. (Comptes Rendus, xxv. p. 268; Pal. Franç. Ter. Cret. 1847, iv. p. 56; Davidson, Introduction, p. 63.)  
*Clistenterata-Terebratulidæ*.

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|--------------------------------------------|---------------------|--------------------------------------------------------|------------------------------|
| <i>T. ? Davidsoni</i> , R. Etheridge, jun. | Mt. Gambier Series. | *Annals Nat. Hist. 1876, xvii. p. 16, pl. 1, f. 1 a—c. | Mount Gambier, S. Australia. |
|--------------------------------------------|---------------------|--------------------------------------------------------|------------------------------|

Genus *Waldheimia*, King, 1850. (Mon. Perm. Foss. England, p. 145; Davidson, Introduction, p. 64.)—*Clistenterata-Terebratulidæ*.

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|---------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <i>W. Corioensis</i> , M'Coy.               | Hamilton Series (L. or M. Ter.?), &c.                                      | *Geol. Survey, Vict. Dec. v. 1877, p. 11, t. 43, f. 1—3; non <i>Terebratula Corioensis</i> , M'Coy (ms.).                                                                                        | Muddy Ck.; Bird Rock; Corio Bay, Vict.           |
| <i>W. Crouchii</i> , Tenison-Woods.         | Mt. Gambier Series.                                                        | *Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 2.                                                                                                                                   | Mount Gambier, S. Australia.                     |
| <i>W. Gambierensis</i> , R. Etheridge, jun. | Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).                    | *Annals Nat. Hist. 1876, xvii. p. 19, t. 2, f. 4 a—d; Johnston, Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31; <i>Terebratula Corioensis</i> , M'Coy (ms.), Smyth's Progress Rep. 1874, p. 36. | Mount Gambier, S. Australia.<br>Table Cape, Tas. |
| <i>W. Garibaldiana</i> , Davidson.          | Mt. Gambier Series (L. or M. Ter.?).                                       | *Geologist, 1862, v. p. 446, t. 24, f. 19; R. Etheridge, jun. *Annals Nat. Hist. 1876, xvii. p. 17, t. 1, f. 2 a and b.                                                                          | Mount Gambier, S. Australia.                     |
| <i>W. grandis</i> , Tenison-Woods.          | Mt. Gambier Series.                                                        | *Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 1 a and b.                                                                                                                           | Mount Gambier, S. Australia.                     |
| <i>W. imbricata</i> , Tenison-Woods.        | Mt. Gambier Series.                                                        | *Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 3 a and b.                                                                                                                           | Mount Gambier, S. Australia.                     |
| <i>W. macropora</i> , M'Coy.                | Schnapper Point Series = Oligocene (L. Ter.), Flemington Beds (Up. Ter.?). | Smyth's Progress Report, 1874, p. 36; *Geol. Survey, Vict. Dec. v. 1877, p. 12, t. 43, f. 4 and 6 (? = <i>W. Garibaldiana</i> , Dav.).                                                           | Flemington, Mount Eliza, &c. Vict.               |
| <i>W. Taylori</i> , R. Etheridge, jun.      | Murray Cliffs Series.                                                      | *Annals Nat. Hist. 1876, xvii. p. 18, t. 1, f. 3 a—c.                                                                                                                                            | Murray Cliffs, S. Australia.                     |



## (Pelecypoda.)

## (Tertiary.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata, or Conchifera).

Genus **Cardita**, *Bruguière*, 1789. (Encycl. Méthod. i. p. 401; Lamarck, Histoire, 1819, vi. p. 20; Stoliczka, Pal. Indica, iii. p. 283.)—*Lucinacea-Astartidæ*.

|                                                      |                       |                                             |                         |
|------------------------------------------------------|-----------------------|---------------------------------------------|-------------------------|
| <i>C. gracilicostata</i> ,<br><i>Tenison-Woods</i> . | Table Cape<br>Series. | *Notes, Tertiary Foss. Tas. 1876,<br>p. 60. | Table Cape, <i>Tas.</i> |
|------------------------------------------------------|-----------------------|---------------------------------------------|-------------------------|

Genus **Cardium**, *Linnaeus*, 1758 (see p. 68).—*Veneracea-Cardiidæ*.

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|---------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| <i>C. pseudo-magnum</i> ,<br><i>M'Coy</i> . | M. Ter. (Miocene?). | Smyth's Progress Report, 1874,<br>p. 36; *Geol. Survey, Vict.<br>Dec. v. 1877, p. 15, t. 44, f. 1. | Bird Rock Bluff,<br><i>Vict.</i> |
|---------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------|----------------------------------|

Genus **Chama**, *Linnaeus*, 1758. (Syst. Nat. ed. 10, i. p. 691; Lamarck, Histoire, 1819, vi. p. 92; Stoliczka, Pal. Indica, iii. p. 230.)—*Chamacea-Chamidæ*.

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|------------------------------------------------|-----------------------|---------------------------------------------|-------------------------|
| <i>C. lamellifera</i> , <i>Tenison-Woods</i> . | Table Cape<br>Series. | *Notes, Tertiary Foss. Tas. 1876,<br>p. 62. | Table Cape, <i>Tas.</i> |
|------------------------------------------------|-----------------------|---------------------------------------------|-------------------------|

Genus **Chione**, *Muhleffel*, 1811. (Naturf. Freunde, Berlin Mag. v. p. 51; Stoliczka, Pal. Indica, iii. p. 148.)—*Veneracea-Veneridæ*.

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|-----------------------------------------------|----------------------------------------|---------------------------------------------|-------------------------|
| <i>C. Cainozoica</i> , <i>Tenison-Woods</i> . | Table Cape<br>Series (L. or M. Ter.?). | *Notes, Tertiary Foss. Tas. 1876,<br>p. 61. | Table Cape, <i>Tas.</i> |
| <i>C. propinqua</i> , <i>Tenison-Woods</i> .  | Table Cape<br>Series.                  | *Notes, Tertiary Foss. Tas. 1876,<br>p. 61. | Table Cape, <i>Tas.</i> |

Genus **Corbis**, *Cuvier*, 1817. (Le Règne Animal, ii. p. 480.)—*Lucinacea-Lucinidæ*.

|                                      |                                         |                                                                                                                                                                                                                                                           |                                              |
|--------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <i>C. lamellosa</i> , <i>Sturt</i> . | Mt. Gambier<br>Series (L. or M. Ter.?). | Two Expds. Int. S. Austr. 1832,<br>ii. p. 254; Woods, Geol. Obs. S.<br>Austr. 1862, p. 105. (? = <i>Lucina</i><br><i>lamellosa</i> , Lamarck, *Ann. Muséum,<br>vii. p. 237; <i>Corbis</i> , Deshayes,<br>*Descr. Coqu. Foss. i. p. 88, t. 14, figs. 1—3.) | Cliffs of Murray R.<br><i>S. Australia</i> . |
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Genus **Corbula**, *Bruguière*, 1792. (Tabl. Encycl. Méthod. pl. 230; Lamarck, Prodrome, 1799, p. 89.)—*Myacea-Myidæ*.

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|------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <i>C. Gallica</i> , <i>Sturt</i> . | Mt. Gambier<br>Series (L. or M. Ter.?). | Two Expds. Int. S. Austr. 1832,<br>ii. p. 254; Woods, Geol. Obs. S.<br>Austr. 1862, p. 105. (? = <i>C.</i><br><i>Gallica</i> , Lamk. *Ann. Muséum,<br>viii. p. 466.) | Cliffs of Murray R.<br><i>S. Australia</i> . |
|------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|

## (Pelecypoda.)

## (Tertiary.)

| Genus and Species.                   | Strat. Subdivision.                                                                | References.                                                                                                                                                                                                                                                              | Localities, &c.                                          |
|--------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <i>C. sulcata</i> , <i>Lamarck</i> . | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Table Cape Series (M. or L. Ter.?). | Système, 1801, p. 137; Histoire, 1818, v. p. 495; M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>ibid. id.</i> 1867, xx. p. 195; <i>ibid.</i> Smyth's Progress Report, 1874, p. 35; <i>ibid. id.</i> 1876, iii. p. 71; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 16. | Schnapper Point, <i>Vict.</i><br>Table Cape, <i>Tas.</i> |

Genus **Crassatella**, *Lamarck*, 1799. (Prodrome, p. 85; Système, 1801, p. 119.)  
*Lucinacea-Crassatellidæ.*

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|----------------------------------------------|-------------------------------------|------------------------------------------------------------|-------------------------|
| <i>C. aphrodina</i> , <i>Tenison-Woods</i> . | Table Cape Series (L. or M. Ter.?). | *Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 24, f. 12. | Table Cape, <i>Tas.</i> |
| <i>C. oblonga</i> , <i>Tenison-Woods</i> .   | Table Cape Series (L. or M. Ter.?). | *Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 25, f. 11. | Table Cape, <i>Tas.</i> |

Genus **Cucullæa**, *Lamarck*, 1801 (see p. 107).—*Arcacea-Arcidæ.*

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|----------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <i>C. Cainoica</i> , <i>Tenison-Woods</i> .              | Table Cape Series (L. or M. Ter.?).                                   | *Notes, Tertiary Foss. Tas. 1876, p. 59; Johnston, Notes, Tertiary Beds, Table Cape, 1876, p. 36.                                                                                                     | Table Cape, <i>Tas.</i><br>Flinders' Is., Bass' Straits.                     |
| <i>C. concamerata</i> ( <i>Martini</i> ), <i>Reeve</i> . | Table Cape Series, &c. (L. or M. Ter.?).                              | *Conch. Icon. 1870, xvii. Mon. Cucullæa, t. 1, f. 1; M'Coy, Annals Nat. Hist. 1867, xx. p. 195; <i>id.</i> Smyth's Progress Report, 1874, i. p. 36; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 15. | Mordialloc, <i>Vict.</i><br>Table Cape, <i>Tas.</i>                          |
| <i>C. Corioensis</i> , <i>M'Coy</i> .                    | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Table Cape Series, &c. | *Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 32, t. 27, f. 3—5 b; Johnston, Notes, Tertiary Beds, Table Cape, <i>Tas.</i> 1876, p. 33.                                                              | Corio Bay, Mordialloc, Mount Martha, <i>Vict.</i><br>Table Cape, <i>Tas.</i> |
| <i>C. granulosa</i> , <i>Jonas</i> .                     |                                                                       | Proc. Zool. Soc. 1846, p. 34; Reeve, Conch. Icon. 1870, xvii. Mon. Cucullæa, t. 1, f. 2; M'Coy, Annals Nat. Hist. 1867, xx. p. 195; <i>id.</i> Smyth's Progress Report, 1874, i. p. 36.               | Mordialloc, <i>Vict.</i>                                                     |

Genus **Hinnites**, *DeFrance*, 1821. (Diet. Sc. Nat. xxi. p. 169.)—*Ostracea-Pectinidæ.*

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|--------------------------------------------|--|---------------------------------------|--|
| <i>H. Corioensis</i> , <i>M'Coy</i> (ms.). |  | Smyth's Progress Report, 1874, p. 36. |  |
|--------------------------------------------|--|---------------------------------------|--|

Genus **Lima**, *Bruguère* (see p. 109).—*Ostreacea-Radulidæ.*

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|--------------------------------------------------|--------------------|----------------------------------------------------------------------|-------------------------|
| <i>L. Bassii</i> , <i>Tenison-Woods</i> .        | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 60.                             | Table Cape, <i>Tas.</i> |
| <i>L. squamosa</i> , <i>Tenison-Woods</i> (ms.). | Table Cape Series. | Johnston, Notes, Tertiary Beds, Table Cape, <i>Tas.</i> 1876, p. 34. | Table Cape, <i>Tas.</i> |

## (Pelecypoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                | Strat. Subdivision.                         | References.                                                                                                                                                                                                                                                                                                                                            | Localities, &c.                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Genus <b>Limatula</b> , <i>Searles Wood</i> , 1839. (Mag. Nat. Hist. iii. pp. 233 and 235; Stoliczka, Pal. Indica, iii. p. 413.)— <i>Ostreacea-Radulidæ</i> .                                                     |                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                             |
| <i>L. subauriculata</i> ,<br><i>Montagu</i> .                                                                                                                                                                     | Table Cape<br>Series (L. or<br>M. Ter.?).   | <i>Pecten</i> , Test. Brit. Supp. 1808,<br>p. 63, t. 29, f. 2; <i>Limatula</i> ,<br>Woods, Notes, Tertiary Foss.<br>Tas. 1876, p. 61.                                                                                                                                                                                                                  | Table Cape, <i>Tas</i> .                                                    |
| Genus <b>Limopsis</b> , <i>Sassi</i> , 1827 (Giornale Ligustico de Sci. Lettere e. Arti!)<br>= <i>Trigonocelia</i> , <i>Myst. et Galeotti</i> ; <i>Pectunculina</i> , d'Orbigny, 1844.<br><i>Arcacea-Arcidæ</i> . |                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                             |
| <i>L. aurita</i> , <i>Brocchi</i> .                                                                                                                                                                               | L. Ter. (Oligo-<br>cene), &c.               | <i>Arca</i> , *Conch. Foss. Subap. ii.<br>p. 485, t. 11, f. 9; <i>Limopsis</i> ,<br>M'Coy, Annals Nat. Hist. 1865,<br>xvi. p. 114; <i>ibid. id.</i> 1876, xx.<br>p. 195; <i>ibid.</i> Smyth's Progress<br>Report, 1874, p. 36; <i>ibid.</i> *Geol.<br>Survey, Vict. Dec. ii. 1875,<br>p. 23, t. 19, figs. 5—7.                                         | Bird Rock, near<br>Geelong; Morn-<br>ington, <i>Vict</i> .                  |
| <i>L. Belcheri</i> , <i>Adams</i><br>and <i>Reve</i> .                                                                                                                                                            | L. Ter. (Oligo-<br>cene), &c.               | <i>Pectunculus</i> , *Voy. Samarang.<br>Zool. Moll. 1850, p. 76, t. 22,<br>f. 5; M'Coy, Annals Nat. Hist.<br>1865, xvi. p. 114; <i>ibid. id.</i><br>1867, xx. p. 195; Woods, Trans.<br>R. Soc. Vict. viii. p. 44; M'Coy,<br>Smyth's Progress Report, 1874,<br>p. 36; <i>id.</i> *Geol. Survey, Vict.<br>Dec. ii. 1875, p. 25, t. 19, figs.<br>8 and 9. | Bird Rock Bluff,<br>nr. Geelong; Co-<br>rio Bay; Muddy<br>Ck. <i>Vict</i> . |
| Genus <b>Lyonsia</b> , <i>Turton</i> , 1822. (Conch. Syst. Brit.! Stoliczka, Pal. Indica, iii. p. 65.)<br><i>Myacea-Anatinidæ</i> .                                                                               |                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                             |
| <i>L. Agnewi</i> , <i>Tenison-</i><br><i>Woods</i> .                                                                                                                                                              | Table Cape<br>Series.                       | *Proc. R. Soc. Tas. for 1875 (1876),<br>p. 25, f. 13.                                                                                                                                                                                                                                                                                                  | Table Cape, <i>Tas</i> .                                                    |
| Genus <b>Nucula</b> , <i>Lamarck</i> , 1799 (see p. 73).— <i>Arcacea-Nuculidæ</i> .                                                                                                                               |                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                             |
| <i>N. Marthæ</i> , <i>M'Coy</i> .                                                                                                                                                                                 | Oldest G. D.<br>(= L. Plio-<br>cene?).      | *Smyth's Progress Report, 1875,<br>ii. p. 22, f. 2; <i>id. ibid.</i> 1876,<br>iii. p. 49; Couchman's Pro-<br>gress Report, 1877, iv. p. 155.                                                                                                                                                                                                           | Welcome Rush, nr.<br>Stawell, <i>Vict</i> .                                 |
| <i>N. tumida</i> , <i>Tenison-</i><br><i>Woods</i> (non <i>Phill.</i> ).                                                                                                                                          | Table Cape<br>Series.                       | *Notes, Tertiary Foss. Tas. 1876,<br>p. 59.                                                                                                                                                                                                                                                                                                            | Table Cape, <i>Tas</i> .                                                    |
| <i>N. sp. ind.</i>                                                                                                                                                                                                | Murray River<br>Series (L. or<br>M. Ter.?). | Sturt, *Two Expeds. Int. S. Austr.<br>1832, ii. p. 254, t. 3, f. 12.                                                                                                                                                                                                                                                                                   | Cliffs of Murray R.<br><i>S. Australia</i> .                                |
| Genus <b>Nuculana</b> , <i>Link</i> , 1807 (see p. 74).— <i>Arcacea-Nuculanidæ</i> .                                                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                             |
| <i>N. crebricostata</i> ,<br><i>Tenison-Woods</i> .                                                                                                                                                               | Table Cape<br>Series.                       | <i>Leda</i> , *Notes, Tertiary Foss. Tas.<br>1876, p. 60.                                                                                                                                                                                                                                                                                              | Table Cape, <i>Tas</i> .                                                    |

## (Pelecypoda.)

## (Tertiary.)

| Genus and Species.                                                                          | Strat. Subdivision.                                       | References.                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                                                                     |
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| Genus <i>Ostrea</i> , <i>Linnaeus</i> , 1758 (see p. 111).— <i>Ostracea-Ostreidae</i> .     |                                                           |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| <i>O. elongata</i> , <i>Sturt</i> .                                                         | Mt. Gambier Series; Murray River Series (L. or M. Ter.?). | *Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106; (? = <i>O. elongata</i> , Deshayes, *Descr. Coqu. Foss. 1824, I. p. 348, t. 49, figs. 3, 4.)                                                                                                                                                                                      | Cliffs of Murray R. and Mt. Gambier, <i>S. Australia</i> .                          |
| Genus <i>Pecten</i> , <i>O. F. Müller</i> , 1776 (see p. 76).— <i>Ostracea-Pectinidae</i> . |                                                           |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| <i>P. coarctatus</i> , <i>Sturt</i> .                                                       | Mt. Gambier Series; Murray River Series (L. or M. Ter.?). | *Two Expds. Int. S. Austr. 1832, p. 254, t. 3, f. 13; Woods, Geol. Obs. S. Austr. 1862, p. 76, fig.; <i>ibid.</i> Quart. Jour. Geol. Soc. 1865, XXI. pp. 391 and 393; <i>ibid.</i> Trans. R. Soc. Vict. VI. p. 6; (? = <i>P. coarctatus</i> , DeFrance, *Dict. Sc. Nat. XXXVIII. p. 255; <i>Ostrea coarctata</i> , Brocci, Conch. Foss. Subap. II. p. 574, t. 14, f. 9.) | Cliffs of Murray R.; Mount Gambier, <i>S. Australia</i> .<br>Muddy Ck. <i>Vict.</i> |
| <i>P. laticostatus</i> , <i>J. E. Gray</i> .                                                |                                                           | Vide <i>Vola laticostata</i> .                                                                                                                                                                                                                                                                                                                                           |                                                                                     |
| <i>P. Yahlensis</i> , <i>Tenison-Woods</i> .                                                | M. Ter. (Miocene?).                                       | *Proc. Phil. Soc. Adelaide 1865, t. 1, f. 2!; M'Coy, in Couchman's Progress Report, 1877, IV. p. 16; var. <i>semilavis</i> , <i>id.</i> *Geol. Survey, Vict. Dec. IV. 1876, p. 13, t. 34.                                                                                                                                                                                | Harrow; Corio Bay, <i>Vict.</i><br>?Mount Gambier, <i>S. Australia</i> .            |
| <i>P. sp. ind.</i>                                                                          | Mt. Gambier Series, &c. (L. or M. Ter.?).                 | Sturt, *Two Expds. Int. S. Austr. 1832, p. 254, t. 3, f. 14; Woods, Geol. Obs. S. Austr. 1862, p. 74, fig.                                                                                                                                                                                                                                                               | Cliffs of Murray R. and Mt. Gambier, <i>S. Australia</i> .                          |

Genus *Pectunculus*<sup>1</sup>, *Lamarck*, 1799 (Prodrome, p. 87; Système, 1801, p. 115), non Adanson, 1757; ? = *Axinea*, *Poli*, 1791.—*Arcacea-Arcidae*.

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| <i>P. laticostatus</i> , <i>Quoy and Gaimard</i> . | Schnapper Pt. Series = Oligocene (L. Tert.?).<br>Table Cape Series (L. or M. Ter.?), &c. | *Voy. de l'Astrolabe, Zool. III. t. 77, figs. 4—6; J. E. Gray, in Dieffenbach's *Travels in N. Zealand, 1843, II. p. 257; M'Coy, Ex. Essay, 1861, p. 169; <i>ibid.</i> Annals Nat. Hist. 1862, IX. p. 146; Wilkinson, Geol. Rept. C. Otway Dist. 1865, p. 23; M'Coy, Annals Nat. Hist. 1865, XVI. p. 114; <i>ibid.</i> <i>id.</i> 1867, XX. p. 194; Woods, Quart. Jour. Geol. Soc. 1865, XXI. p. 391; <i>ibid.</i> Trans. R. Soc. Vict. VIII. p. 45; Hutton, *Cat. Ter. Moll. and Echinodermata, N. Zealand, 1873, p. 28; von Martens, Cat. Marine Moll. N. Zealand, | Schnapper Point, Hobson's Bay; Bird Rock, near Geelong; Muddy Ck. near Hamilton, <i>Vict.</i><br>Table Cape, <i>Tas.</i> |
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<sup>1</sup> *Pectunculus*.—This name was first used by Adanson, in 1757 (*Voy. Sénégal*, p. 240), and again by Lamarck, in 1799, but in a different sense. The Lamarckian genus appears to be identical with *Axinea*, *Poli*, 1791 (*Testacea u. Siciliæ*), which has precedence of it, and should therefore take the place of *Pectunculus*, Lamarck (non Adanson).

## (Pelecypoda.)

## (Tertiary.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                       | Localities, &c. |
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|                    |                     | 1873, p. 80; M'Coy, Smyth's Progress Rept. 1874, p. 35; <i>id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 26, t. 19, figs. 10—14. |                 |

Genus **Protocardium**, *Beyrich*, 1845. (Menke's Zeit. für Malakozool. 1845, pp. 17—20.) *Veneracea-Cardiida*.

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| <i>P. antisemigranulatum</i> , <i>M'Coy</i> . | M. Ter. (Miocene?). | *Geol. Survey, Vict. Dec. v. 1877, p. 16, t. 44, f. 2 and 3. | Moorabool, <i>Vict.</i> |
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Genus **Solecurtus**, *Blainville*, 1824. (Dict. Sci. Nat. xxxii. p. 351.)—*Myacea-Solenida*.

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| <i>S. Legrandi</i> , <i>Tenison-Woods</i> . | Table Cape Series (L. or M. Ter.?). | *Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 25, f. 14. | Table Cape, <i>Tas.</i> |
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Genus **Spondylus**, *Klein*, 1759. (Tert. Meth. Ostrac. p. 136; Linnæus, Systema, ed. 10, 1758, p. 690; Stoliczka, Pal. Indica, III. p. 441.)—*Ostracea-Spondylida*.

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| <i>S. gadæropoides</i> , <i>M'Coy</i> .    | Schnapper Pt. Series = Oligocene (L. Tert.).                                                          | Smyth's Progress Report, 1874, pp. 35 and 36; Couchman's, <i>id.</i> 1877, iv. p. 17; *Geol. Survey, Vict. Dec. iv. 1876, p. 27, t. 38, f. 1—1 d; Dec. v. 1877, p. 17, t. 45, f. 1 and 3. | Boggy Creek; Bird Rock Bluff; Schnapper Pt. <i>Vict.</i> |
| <i>S. pseudoradula</i> , <i>M'Coy</i> .    | Schnapper Pt. beds = Oligocene (L. Ter.); Hamilton Series (L. or M. Ter.); Mordialloc Ser. (U. Ter.). | *Geol. Survey, Vict. Dec. v. 1877, p. 17, t. 45, f. 2.                                                                                                                                    | Mount Martha; Muddy Creek; Mordialloc, <i>Vict.</i>      |
| <i>S. spinulosus</i> , <i>M'Coy</i> (ms.). | Schnapper Pt. Series = Oligocene (L. Tert.).                                                          | Smyth's Progress Report, 1874, p. 35.                                                                                                                                                     | Boggy Creek; Bird Rock Bluff; Schnapper Pt. <i>Vict.</i> |

Genus **Tellina**, *Linnæus*, 1758 (see p. 112).—*Tellinacea-Tellinida*.

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| <i>T. Cainozoica</i> , <i>Tenison-Woods</i> . | Table Cape Series.             | *Notes, Tertiary Foss. Tas. 1876, p. 61.                                                                                     | Table Cape, <i>Tas.</i>                 |
| <i>T. Krausei</i> , <i>M'Coy</i> .            | Oldest G. D. (= L. Pliocene?). | *Smyth's Progress Report, 1875, II. p. 22, f. 3; <i>id. ibid.</i> 1876, p. 49; Couchman's Progress Report, 1877, iv. p. 155. | Welcome Rush, nr. Stawell, <i>Vict.</i> |

Genus **Trigonia**, *Bruguière*, 1789 (see p. 113).—*Arcacea-Trigoniada*.

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| <i>T. acuticostata</i> , <i>M'Coy</i> . | Schnapper Pt. Series = Oligocene (L. Tert.). | <i>T. Lamarkii</i> , Jenkins (non Mathn.), *Geol. Mag. 1866, III. p. 201, t. 10, figs. 3—7; <i>T. acuticostata</i> , M'Coy, * <i>ibid.</i> p. 482; <i>ibid. id.</i> | Cape Otway Coast; Mordialloc; Muddy Creek; Schnapper Point, <i>Vict.</i> |
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## (Pelecypoda.)

## (Tertiary.)

| Genus and Species.                         | Strat. Subdivision.                                    | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Localities, &c.                                                          |
|--------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|                                            | Hamilton Series (L. or M. Ter.), &c.                   | Annals Nat. Hist. 1867, xx. p. 194; <i>T. Lamarkii</i> , Jenkins, Geol. Mag. 1868, v. p. 567; <i>T. acuticostata</i> , M'Coy, *Geol. Survey, Vict. 1875, Dec. II. p. 21, t. 19, figs. 1 and 2; <i>id.</i> Annals Nat. Hist. 1876, xviii. p. 273.                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |
| <i>T. Howitti</i> , M'Coy.                 | M. Ter. (Miocene?).                                    | *Annals Nat. Hist. 1875, xv. p. 316, t. 18, f. B; *Geol. Survey, Vict. Dec. III. p. 31, t. 27, f. 1 to 2 c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Jemmy's Point, Gippsland Lakes, Vict.                                    |
| <i>T. Lamarkii</i> , Jenkins (non Mathn.). |                                                        | Vide <i>T. acuticostata</i> , M'Coy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |
| <i>T. semiundulata</i> , M'Coy.            | Table Cape Series (M. or L. Ter.). Miocene? (M. Ter.). | Ex. Essay, 1861, p. 170; Annals Nat. Hist. 1862, ix. p. 147; <i>T. subundulata</i> , Jenkins, *Quart. Jour. Sci. 1865, II. p. 362, t. 8, f. 6; <i>T. semiundulata</i> , M'Coy, *Geol. Mag. 1866, III. p. 481; <i>ibid. id.</i> Annals Nat. Hist. 1867, xx. p. 194; <i>ibid.</i> Jenkins, Geol. Mag. 1868, v. p. 566; <i>ibid.</i> Stephens, Monthly Notices R. Soc. Tas. for 1869, p. 20; <i>ibid.</i> Hutton, Cat. Tert. Moll. and Echinodermata, N. Zealand, 1873, p. 27; <i>ibid.</i> M'Coy, Smyth's Progress Report, 1874, p. 35; <i>ibid. id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 22, t. 19, figs. 4 and 5; <i>ibid.</i> Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 16. | Bird Rock Bluff, near Geelong; Moorabool Riv., Vict.<br>Table Cape, Tas. |

Genus **Unio**, Retzius, 1788 (see p. 113).—*Unionacea-Unionidæ*.

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| <i>U. Wilkinsoni</i> , Etheridge, jun. (ms.). | Oldest G. D. (=L. Pliocene?). | <i>Unio sp.</i> Wilkinson, Annual Report Dep. Mines, N. S. Wales, for 1876, p. 172; <i>id.</i> Etheridge, jun. Geol. Mag. 1877, Dec. 2, iv. p. 286. | Gulgong, N. S. Wales. |
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Genus **Venus**, Linnæus, 1758 (see p. 79).—*Veneracea-Veneridæ*.

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| <i>V. Allporti</i> , Tenison-Woods. | Table Cape Series (L. or M. Ter.).                       | *Proc. R. Soc. Tas. for 1875 (1876), p. 26, f. 10.                                                                                                             | Table Cape, Tas.                                  |
| <i>V. lævigata</i> , Sturt.         | Mt. Gambier Series; Murray River Series (L. or M. Ter.). | *Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106. (? = <i>Cytherea lævigata</i> , Lamk. *Ann. Muséum, 1806, VII. p. 134.) | Cliffs of Murray R.; Mount Gambier, S. Australia. |
| <i>V. obliqua</i> , Sturt.          | Murray River Series (L. or M. Ter.).                     | *Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106. (? = <i>V. obliqua</i> , Lamk. *Ann. Muséum, 1806, VII. p. 62.)         | Cliffs of Murray R. S. Australia.                 |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                     | Strat. Subdivision.                 | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Localities, &c.         |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Genus <b>Vola</b> , <i>Klein</i> , 1753. (Tent. Meth. Ostrac. pt. 2, p. 135, no. 351.)<br><i>Ostreacea-Pectinida</i> . |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
| <b>V. laticostata</b> , <i>J. E. Gray</i> .                                                                            | Table Cape Series (L. or M. Ter.?). | <i>Pecten</i> , in Yate's *Account of N. Zealand, 1835, p. 310; <i>id.</i> in Dieffenbach's Travels in N. Zealand, 1843, II. p. 260; <i>P. Novæ Zeelandiæ</i> , Reeve, *Conch. Iconica, VIII. Mon. Genus <i>Pecten</i> , 1852, no. 36, t. 8, f. 36; <i>P. laticostatus</i> , Angas, Proc. Zool. Soc. 1865, p. 656; <i>Vola laticostata</i> , Hutton, *Cat. Marine Moll. N. Zealand, 1873, p. 82; <i>P. (Vola) id.</i> von Martens, Critical List Marine Moll. N. Zealand, 1873, p. 50; <i>Pecten</i> , Hutton, *Cat. Tert. Moll. and Echinodermata, N. Zealand, 1873, p. 30. | Table Cape, <i>Tas.</i> |

## Class—Gasteropoda.

Genus **Actæon**, *de Montfort*, 1810 (see p. 113).

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| <b>A. scrobiculatus</b> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 50. | Table Cape, <i>Tas.</i> |
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Genus **Ancilla**, *Lamarck*, 1799 (Prodrome, p. 70; Système, 1801, p. 73; Adams, Genera, I. 1853, p. 148) = *Ancillaria*, Lamk. 1810.—*Prosobr.-Olividae*.

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| <b>A. mucronata</b> , <i>G. B. Sowerby</i> . | Table Cape Series (L. or M. Ter.?). | <i>Ancillaria</i> , *Thes. Conch. III. p. 63, f. 11, 12, and 14; <i>id.</i> Tenison-Woods, Proc. R. Soc. Tas. 1875, p. 17; <i>id.</i> Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 34. | Table Cape, <i>Tas.</i> |
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Genus **Buccinum**, *Linnaeus*, 1758. (Systema, ed. 10, p. 734; Lamarck, Prodrome, 1799, p. 71; Système, 1801, p. 77; Histoire, 1822, VII. p. 262; Adams, Genera, I. 1853, p. 107.)—*Prosobr.-Buccinidae*.

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| <b>B. fragile</b> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 55. | Table Cape, <i>Tas.</i> |
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Genus **Bulla**, *Klein*, 1753. (Tent. Meth. Ostrac. p. 82; Linnaeus, 1758, Systema, ed. 10, p. 725; Lamarck, Prodrome, 1799, p. 75; *id.* Histoire, 1822, VI. pt. 2, p. 116; Adams, Genera, II. 1854, p. 15.)—*Opisthobr.-Bullidae*.

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| <b>B.?</b> <i>sp. ind.</i> | Murray River Series. | Sturt, Two Exped. Int. S. Austr. 1832, II. t. 2, f. 2. | Murray R. Cliffs, <i>S. Australia</i> . |
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## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                   | Strat. Subdivision.                                                                | References.                                                                                                                                                                                                           | Localities, &c.                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Genus <i>Calcar</i> , <i>Montfort</i> , 1810 (Conch. Syst. II. p. 135; <i>Stoliczka</i> , Pal. Indica, II. p. 357) = <i>Stella</i> (Klein), H. and A. Adams, 1854; ? <i>Turboidea</i> , Seeley, 1861.<br><i>Prosobr.-Turbinidæ</i> . |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. Flindersi</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                         | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 43.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| <i>C. ornatissimum</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                      | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 44.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| Genus <i>Cassidaria</i> , <i>Lamarck</i> , 1812. (Cours de Zool. I.; Histoire, 1822, VII. p. 214; <i>Stoliczka</i> , Pal. Indica, II. p. 453.)— <i>Prosobr.-Cassididæ</i> .                                                          |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. reticulospira</i> , <i>M'Coy</i> .                                                                                                                                                                                             | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Table Cape Series (L. or M. Ter.?). | Exhib. Essay, 1861, p. 169; <i>Annals Nat. Hist.</i> 1862, IX. p. 146; <i>ibid.</i> 1867, XX. p. 194; <i>Smyth's Progress Report</i> , 1874, p. 35; <i>Tenison-Woods</i> , Proc. R. Soc. Tas. for 1875 (1876), p. 17. | Schnapper Point, <i>Vict.</i><br>Table Cape, <i>Tas.</i> |
| Genus <i>Cassis</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 72; Histoire, 1822, VII. p. 218; Adams, Genera, I. 1853, p. 214.)— <i>Prosobr.-Cassididæ</i> .                                                                            |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. sufflatus</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                         | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 41.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| Genus <i>Cerithium</i> , <i>Adanson</i> , 1757 (see p. 114).                                                                                                                                                                         |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. Flemingtonensis</i> , <i>M'Coy</i> .                                                                                                                                                                                           | Flemington Series (L. Pliocene?).                                                  | *Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 28, t. 26, f. 3—9.                                                                                                                                                     | Flemington, <i>Vict.</i>                                 |
| Genus <i>Columbella</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 75; Histoire, VII. 1822, p. 292; Adams, Genera, 1853, I. p. 181.)<br><i>Prosobr.-Columbellinæ</i> .                                             |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. Cainozoica</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                        | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 58.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| <i>C. Oxleyi</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                            | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 59.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| Genus <i>Cominella</i> , <i>J. E. Gray</i> , 1853. (Adams, Genera, I. p. 110; Guide Moll. Brit. Mus. 1857, p. 15.)— <i>Prosobr.-Buccinidæ</i> .                                                                                      |                                                                                    |                                                                                                                                                                                                                       |                                                          |
| <i>C. cancellata</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                        | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 55.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |
| <i>C. lyræcostata</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                       | Table Cape Series.                                                                 | *Notes, Tertiary Foss. Tas. 1876, p. 56.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                  |



## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                               | Strat. Subdivision.                              | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Genus <b>Conus</b> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 712; Lamarck, 1799, Prodrome, p. 69; Adams, Genera, 1853, i. p. 247.)— <i>Prosobr.-Conidae</i> .                                                                               |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |
| <i>C. ? sp. ind. (a).</i>                                                                                                                                                                                                                        | Murray River Series.                             | Sturt, Two Expeds. Int. S. Austr. 1832, ii. p. 256, t. 2, f. 3.                                                                                                                                                                                                                                                                                                                                                                                                                               | Murray R. Cliffs, <i>S. Australia</i> .                                               |
| <i>C. ? sp. ind. (b).</i>                                                                                                                                                                                                                        | Murray River Series (L. or M. Ter.?).            | Sturt, Two Expeds. Int. S. Austr. 1832, ii. p. 256, t. 3, f. 26; Woods, Geol. Obs. S. Austr. 1862, p. 78.                                                                                                                                                                                                                                                                                                                                                                                     | Murray R. Cliffs, <i>S. Australia</i> .                                               |
| Genus <b>Cylichna</b> , <i>Lovén</i> , 1846. (Index Moll. Scand. !; Adams, Genera, 1854, ii. p. 9; Stoliczka, Pal. Indica, ii. p. 478.)— <i>Opisthobr.-Cylichnidae</i> .                                                                         |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |
| <i>C. arachis</i> , <i>Quoy and Gaimard</i> .                                                                                                                                                                                                    | Table Cape Series (L. or M. Ter.?).              | <i>Bulla</i> , Voy. de l'Astrolabe, Zoologie, ii. p. 361, Atlas, t. 26, f. 28—30; Sowerby, *Thes. Conch. ii. p. 590, t. 125, f. 133 and 134; Angas, Proc. Zool. Soc. 1867, p. 226; <i>Cylichna</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 36; <i>id.</i> Tenison-Woods, <i>ibid.</i> p. 50.                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                                               |
| Genus <b>Cypræa</b> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 718; Lamarck, Prodrome, 1799, p. 69; <i>id.</i> Histoire, 1822, vii. p. 372; Adams, Genera, 1854, i. p. 264; Stoliczka, Pal. Indica, ii. p. 49.)— <i>Prosobr.-Cypræidae</i> . |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |
| <i>C. Archeri</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                       | Table Cape Series.                               | *Proc. R. Soc. Tas. for 1875 (1876), p. 23, f. 9.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Table Cape, <i>Tas.</i>                                                               |
| <i>C. eximia</i> , <i>G. B. Sowerby</i> .                                                                                                                                                                                                        | Schnapper Pt. Series = Oligocene (L. Ter.), &c.  | Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 296, t. 19, f. 1—3; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; M'Coy, Smyth's Progress Report, 1874, p. 35; <i>C. (Cyprocula)</i> , Gray, Proc. Zool. Soc. 1849, p. 125; <i>Cypræa</i> , R. Gunn, <i>ibid.</i> p. 124; <i>id.</i> Gray, Proc. R. Soc. V. D. Land, ii. p. 197; <i>C. (Aricia) eximia</i> , M'Coy, *Geol. Survey, Vict. Dec. iii. p. 35, t. 28, f. 2; <i>Cypræa</i> , Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 15. | Schnapper Point; Reilley's Creek, near Hamilton, <i>Vict.</i> Table Cape, <i>Tas.</i> |
| <i>C. gastroplax</i> , <i>M'Coy</i> .                                                                                                                                                                                                            | Schnapper Pt. Series = Oligocene (L. Ter.).      | Annals Nat. Hist. 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. ii. 1875, p. 20, t. 16, f. 1, t. 17 and t. 18, f. 2.                                                                                                                                                                                                                                                                                                                                      | Schnapper Point, <i>Vict.</i>                                                         |
| <i>C. gigas</i> , <i>M'Coy</i> .                                                                                                                                                                                                                 | Schnapper Pt. Series = Oligocene (L. Tert.), &c. | Annals Nat. Hist. 1867, xx. p. 194, and p. *438; Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia) gigas</i> , *Geol. Survey, Vict. Dec. ii. 1875, p. 19, t. 15, t. 16, f. 2, t. 17 and 18, f. 1; <i>id. ibid.</i> Dec. iii. 1876, p. 35, t. 28, t. 29, f. 1.                                                                                                                                                                                                                              | Schnapper Point; Muddy Ck. <i>Vict.</i>                                               |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                           | Strat. Subdivision.                                      | References.                                                                                                                                                                                           | Localities, &c.                            |
|----------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <i>C. oviformis</i> , <i>Tenison-Woods</i> . | Mt. Gambier Series.                                      | Geol. Obs. S. Austr. 1862, p. 83 (? = <i>C. oviformis</i> , J. Sow. Min. Con. i. p. 17, t. 4).                                                                                                        | Mount Gambier, S. Australia.               |
| <i>C. platypyga</i> , <i>M'Coy</i> .         | Schnapper Pt. Series = Oligocene (L. Ter.).              | Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia)</i> , *Geol. Survey, Vict. Dec. III. 1876, p. 39, t. 30, f. 1—1 c; <i>Cypræa</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33. | Schnapper Point, Vict.<br>Table Cape, Tas. |
| <i>C. platyrhyncha</i> , <i>M'Coy</i> .      | M. Ter. (Miocene ?); Table Cape Series (L. or M. Ter.?). | Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia)</i> , *Geol. Survey, Vict. Dec. III. 1876, p. 40, t. 30, f. 2—2 c; <i>Cypræa</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33. | Bird Rock Point, Vict.<br>Table Cape, Tas. |

Genus **Cypræovula**, *Gray*, 1824. (Zool. Jour. i. p. 75; Adams, Genera, 1854, p. 267; Gray, Guide Brit. Mus. 1857, pt. 1, p. 73.)—*Prosobr.-Cypræidæ*.

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| <i>C. eximia</i> , <i>G. B. Sowerby</i> . |  | Vide <i>Cypræa eximia</i> . |  |
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Genus **Daphnella**, *Hinds*, 1844. (Zool. Voy. H.M.S. Sulphur, II. Mollusca, p. 25; Adams, Genera, 1853, i. p. 97.)—*Prosobr.-Turritidæ*.

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|---------------------------------------------------|--------------------|------------------------------------------|------------------|
| <i>D. columbelloides</i> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 53. | Table Cape, Tas. |
| <i>D. gracillima</i> , <i>Tenison-Woods</i> .     | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 54. | Table Cape, Tas. |
| <i>D. tenuisculpta</i> , <i>Tenison-Woods</i> .   | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 54. | Table Cape, Tas. |

Genus **Delphinula**, *Lamarck*, 1804 (see p. 114).—*Prosobr.-Turbinidæ*.

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|---------------------------------------------------|--------------------|------------------------------------------|--|
| <i>D. tetragonostoma</i> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 44. |  |
|---------------------------------------------------|--------------------|------------------------------------------|--|

Genus **Dentalium**, *Linnaeus*, 1740 (see p. 81).—*Prosobr.-Dentaliidæ*.

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|-----------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>D. Kickxii</i> , <i>Nyst</i> . | Table Cape Series (L. or M. Ter.?). | *Descrip. Coq. Polyp. Foss. Terr. Tert. Belg. 1843, pt. 2, p. 342, t. 36, f. 1; Bull, Soc. Geol. xiv. p. 454; <i>D. Mississippensis</i> (Conrad), M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>D. Kickxii</i> (Nyst), et <i>D. Mississippensis</i> (Conrad), <i>id. ibid.</i> 1867, xx. p. 193; <i>D. Kickxii</i> , M'Coy, Smyth's Progress Report, 1874, p. 36; <i>id.</i> Woods, *Proc. R. Soc. Tas. for 1875 (1876), p. 15; <i>id.</i> Deshayes, *Descrip. Anim. sans Vertèbres, II. p. 207, Atlas, t. 3, f. 1—4. | Table Cape, Tas. Victoria. |
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## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                                                                          | Strat. Subdivision.                                  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <i>D. lacteum</i> , Deshayes.                                                                                                                                                                                                                                                               | Table Cape Series (L. or M. Ter.?).                  | *Mon. Dentalium, p. 42, t. 2, f. 28; Deshayes and Edwards, Lamarck's Histoire Nat. Anim. s. Vert. 1838, v. p. 597; Catlow and Reeve, Conch. Nomenclator, 1845, p. 91; Tenison-Woods, *Proc. R. Soc. Tas. for 1875 (1876), p. 17.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Table Cape, Tas.                                   |
| Genus <b>Emarginula</b> , Lamarck, 1801. (Système, p. 67; Histoire, 1822, vi. p. 5; Adams, Genera, 1854, i. p. 452; Stoliczka, Pal. Indica, ii. p. 391.)<br><i>Prosobr.-Fissurellidæ</i> .                                                                                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <i>E. transenna</i> , Tenison-Woods.                                                                                                                                                                                                                                                        | Table Cape Series (L. or M. Ter.?).                  | *Notes, Tertiary Foss. Tas. 1876, p. 51; ? <i>E. dilecta</i> , Angas (non A. Adams), Proc. Zool. Soc. 1867, p. 219.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Table Cape, Tas.                                   |
| Genus <b>Eulima</b> , Risso, 1826. (Hist. Nat. Europe Mérid. iv. p. 123; Adams, Genera, 1853, i. p. 236.)— <i>Prosobr.-Eulimidæ</i> .                                                                                                                                                       |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <i>E. subulata</i> , Donovan.                                                                                                                                                                                                                                                               | Table Cape Series; Hamilton Series (L. or M. Ter.?). | <i>Turbo</i> , Nat. Hist. Brit. Shells, 1803, v. t. 172; <i>Helix</i> , Montagu, Test. Brit., Supp. 1808, p. 142; <i>Phasianella</i> , Fleming, Brit. Animals, 1828, p. 301; <i>Eulima</i> , Catlow and Reeve, Conch. Nomenclator, 1845, p. 209; <i>id.</i> Deshayes and M. Edwards, Lamarck's Hist. Nat. Anim. s. Vertèb. 1838, viii. p. 455; <i>id.</i> Searles Wood, *Mon. Crag. Moll. 1848, pt. 1, p. 97; <i>id.</i> Forbes and Hanley, *Hist. Brit. Moll. 1853, iii. p. 235, t. 92, f. 7 and 8; <i>id.</i> Hörnes, *Foss. Moll. Tert.-Beckens Wien, 1856, 1 Bd. p. 547, t. 49, f. 20, a—c; <i>id.</i> Gwyn-Jeffreys, *Brit. Conch. 1867, iv. p. 208; <i>Eulimella</i> , Tenison-Woods, Notes, Tertiary Foss. Tas. 1876, p. 50. | Table Cape, Tas. Muddy Creek, near Hamilton, Vict. |
| Genus <b>Fissurella</b> , Bruguière, 1789. (Encycl. Méthod. i. p. xiv.; Lamarck, Prodrome, 1799, p. 78; <i>id.</i> Système, 1801, p. 69; <i>id.</i> Histoire, 1822, vi. pt. 2, p. 8; Stoliczka, Pal. Indica, ii. p. 392; Adams, Genera, 1854, i. p. 445.)<br><i>Prosobr.-Fissurellidæ</i> . |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <i>F. concatenata</i> , Crosse.                                                                                                                                                                                                                                                             | Table Cape Series (L. or M. Ter.?).                  | *Jour. de Conchy. 1864, xii. p. 348; Woods, Notes, Tertiary Foss. Tas. 1876, p. 50.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Table Cape, Tas.                                   |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                                                                     | Strat. Subdivision. | References.                                       | Localities, &c.               |
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| Genus <b>Fusus</b> , <i>Klein</i> , 1753. (Tent. Meth. Ostrac. pt. 1, p. 60; Lamarck, Prodrôme, 1799, p. 73; <i>id.</i> Système, 1801, p. 82; <i>id.</i> Histoire, 1822, vii. p. 121; Adams, Genera, 1853, i. p. 78; Stoliczka, Pal. Indica, ii. p. 117.)<br><i>Prosobr.-Muricidæ.</i> |                     |                                                   |                               |
| <i>F. gracillimus</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                         | Table Cape Series.  | *Proc. R. Soc. Tas. for 1875, p. 22.              | Table Cape, <i>Tas.</i>       |
| <i>F. Johnstonii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                          | Table Cape Series.  | *Notes, Tertiary Foss. Tas. 1876, p. 42.          | Table Cape, <i>Tas.</i>       |
| <i>F. Meredithii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                          | Table Cape Series.  | *Proc. R. Soc. Tas. for 1875 (1876), f. 6.        | Table Cape, <i>Tas.</i>       |
| <i>F. pagodoides</i> , <i>M'Coy</i> (ms.).                                                                                                                                                                                                                                             | Table Cape Series.  | Smyth's Progress Report, 1874, p. 35.             | Schnapper Point, <i>Vict.</i> |
| <i>F. Roblini</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                             | Table Cape Series.  | *Proc. R. Soc. Tas. for 1875 (1876), p. 22, f. 7. | Table Cape, <i>Tas.</i>       |
| <i>F. Tateana</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                             | Table Cape Series.  | *Notes, Tertiary Foss. Tas. 1876, p. 42.          | Table Cape, <i>Tas.</i>       |
| <i>F. transenna</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                                           | Table Cape Series.  | *Notes, Tertiary Foss. Tas. 1876, p. 42.          | Table Cape, <i>Tas.</i>       |

Genus **Gibbula** (*Leach*), *Risso*, 1826. (Hist. Nat. Europe Mérid. iv. p. 134; Adams, Genera, 1854, i. p. 431; Stoliczka, Pal. Indica, ii. p. 361.)  
*Prosobr.-Turbinidæ.*

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| <i>G. æquisulcata</i> , <i>Tenison-Woods</i> .   | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 46. | Table Cape, <i>Tas.</i> |
| <i>G. Clarkei</i> , <i>Tenison-Woods</i> .       | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 62. | Table Cape, <i>Tas.</i> |
| <i>G. crassigranosa</i> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 46. | Table Cape, <i>Tas.</i> |

Genus **Haliotis**, *Linnaeus*, 1758. (Systema, ed. 10, p. 779; Lamarck, Système, 1801, p. 96; Histoire, 1822, vi. pt. 2, p. 212; Adams, Genera, 1854, i. p. 440.)  
*Prosobr.-Haliotidæ.*

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|-------------------------------------------------|-------------------------------------|--------------------------------------------------------|------------------------------------------|
| <i>H. Flemingtonensis</i> , <i>M'Coy</i> (ms.). | Flemington Series (= L. Pliocene?). | Geol. Survey, Vict. Dec. iii. 1876, p. 25.             | Flemington, <i>Vict.</i>                 |
| <i>H. Mooraboolensis</i> , <i>M'Coy</i> .       | M. Ter. (Miocene?).                 | *Geol. Survey, Vict. Dec. iii. p. 25, t. 25, f. 3—3 b. | Moorabool River, near Maud, <i>Vict.</i> |
| <i>H. nævosoides</i> , <i>M'Coy</i> .           | Flemington Series (= L. Pliocene?). | *Geol. Survey, Vict. Dec. iii. p. 27, t. 26, f. 1—2 a. | Flemington, <i>Vict.</i>                 |
| <i>H. ovinoides</i> , <i>M'Coy</i> .            | M. Ter. (Miocene?).                 | *Geol. Survey, Vict. Dec. iii. p. 24, t. 25, f. 2—2 b. | Moorabool River, near Maud, <i>Vict.</i> |

Genus **Infundibulum**, *Montfort*, 1810 (Conch. Syst. ii. p. 166; Stoliczka, Pal. Indica, ii. p. 316) = *Trochita*, *Schum.* 1817.—*Prosobr.-Calyptreidæ.*

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|----------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------|
| <i>I. calyptræformis</i> , <i>Deshayes</i> . | Table Cape Series (L. or M. Ter.?). | <i>Trochita</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. for 1876, p. 34. | Table Cape, <i>Tas.</i> |
|----------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------|

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                          | Strat. Subdivision.                 | References.                                                                                                             | Localities, &c.                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Genus <i>Liotia</i> , <i>J. E. Gray</i> , 1842. (Synop. Contents Brit. Mus. p. 57; Adams, Proc. Zool. Soc. 1850, p. 50; <i>id.</i> Genera, 1854, i. p. 404; Stoliczka, Pal. Indica, ii. p. 350.)— <i>Prosobr.-Liotidæ</i> . |                                     |                                                                                                                         |                                                       |
| <i>L. discoidea</i> , <i>Reeve</i> .                                                                                                                                                                                        | Table Cape Series (L. or M. Ter.).  | Adams, Genera, 1854, i. p. 404; Woods, Notes, Tertiary Foss. Tas. for 1876, p. 50.                                      | Table Cape, <i>Tas.</i>                               |
| <i>L. lamellosa</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 44.                                                                                | Table Cape, <i>Tas.</i>                               |
| Genus <i>Mangelia</i> ( <i>Leach</i> ), <i>Risso</i> , 1826. (Hist. Nat. Europe Mérid. iv. p. 219; Adams, Genera, 1853, i. p. 99.)— <i>Prosobr.-Pleurotomidæ</i> .                                                          |                                     |                                                                                                                         |                                                       |
| <i>M. gracililirata</i> , <i>Tenison-Woods</i> .                                                                                                                                                                            | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 54.                                                                                | Table Cape, <i>Tas.</i>                               |
| Genus <i>Margarita</i> , <i>Leach</i> , 1819. [Jour. Phys. LXXXVIII. p. 464; Stoliczka, Pal. Indica, ii. p. 368; Adams, Genera, 1854, i. p. 433 (non Leach, 1814).]— <i>Prosobr.-Turbinidæ</i> .                            |                                     |                                                                                                                         |                                                       |
| <i>M. Kekwickii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 45.                                                                                | Table Cape, <i>Tas.</i>                               |
| Genus <i>Marginella</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 75; Histoire, 1822, vii. p. 354; Adams, Genera, 1853, i. p. 190.)— <i>Prosobr.-Volutidæ</i> .                                          |                                     |                                                                                                                         |                                                       |
| <i>M. octoplicata</i> , <i>Tenison-Woods</i> .                                                                                                                                                                              | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 57.                                                                                | Table Cape, <i>Tas.</i>                               |
| <i>M. strombiformis</i> , <i>Tenison-Woods</i> .                                                                                                                                                                            | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 57.                                                                                | Table Cape, <i>Tas.</i>                               |
| <i>M. Wentworthii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                              | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 57.                                                                                | Table Cape, <i>Tas.</i>                               |
| Genus <i>Mitra</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 74; Histoire, 1822; vii. p. 297; Adams, Genera, 1853, i. p. 168.)— <i>Prosobr.-Volutidæ</i> .                                               |                                     |                                                                                                                         |                                                       |
| <i>M. sp. ind. (a)</i> .                                                                                                                                                                                                    | Murray River Series, &c.            | Sturt, Two Expds. Int. S. Austr. 1832, ii. p. 255, t. 3, f. 23; Woods, Geol. Obs. S. Austr. 1862, p. 78.                | Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i> |
| <i>M. sp. ind. (b)</i> .                                                                                                                                                                                                    | Murray River Series, &c.            | Sturt, <i>loc. cit.</i> f. 24.                                                                                          | Murray R. Cliffs, <i>S. Australia</i> .               |
| Genus <i>Murex</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 746; Lamarck, 1801; Système, p. 81; <i>id.</i> Histoire, 1822, vii. p. 155; Adams, Genera, 1853, i. p. 70.)— <i>Prosobr.-Muricidæ</i> .                   |                                     |                                                                                                                         |                                                       |
| <i>M. asper</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                    | Mt. Gambier Series (L. or M. Ter.). | Geol. Obs. S. Austr. 1862, p. 83, fig. (? = <i>M. asper</i> , Brander, Foss. Hantonensia, 1766, p. 35, t. 3, f. 77—79). | Mount Gambier, <i>S. Australia</i> .                  |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.               | Strat. Subdivision.                   | References.                                                                                                    | Localities, &c.                                       |
|----------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| M. Eyeri, <i>Tenison-Woods</i> . | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 41.                                                                       | Table Cape, <i>Tas</i> .                              |
| M.? <i>sp. ind.</i>              | Murray River Series (L. or M. Ter.?). | Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 21; Woods, Geol. Obs. S. Austr. 1862, p. 78, fig. | Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i> |

Genus **Natica**, *Adanson*, 1757 (see p. 114).—*Prosobr.-Naticidæ*.

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|------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------|
| N. ovata, <i>Hutton</i> .                | Table Cape Series (L. or M. Ter.?). | *Cat. Tert. Moll. N. Zealand, 1873, p. 9; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 17. | Table Cape, <i>Tas</i> .                |
| N. polita, <i>Tenison-Woods</i> .        | Table Cape Series.                  | *Proc. R. Soc. Tas. for 1875 (1876), p. 23.                                                 | Table Cape, <i>Tas</i> .                |
| N. vixumbilicata, <i>Tenison-Woods</i> . | Table Cape Series.                  | *Notes, Tertiary Foss. Tas. 1876, p. 59.                                                    | Table Cape, <i>Tas</i> .                |
| N. Wintlei, <i>Tenison-Woods</i> .       | Table Cape Series.                  | *Proc. R. Soc. Tas. for 1875 (1876), p. 23.                                                 | Table Cape, <i>Tas</i> .                |
| N. <i>sp. ind. (a)</i> .                 | Murray River Series.                | Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 17.                            | Murray R. Cliffs, <i>S. Australia</i> . |
| N. <i>sp. ind. (b)</i> .                 | Murray River Series.                | Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 18.                            | Murray R. Cliffs, <i>S. Australia</i> . |

Genus **Pleurotoma**, *Lamarck*, 1799. (Prodrome, p. 73; Système, 1801, p. 84; Histoire, 1822, VII. p. 90; Stoliczka, Pal. Indica, II. p. 67.)  
*Prosobr.-Pleurotomidæ*.

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| P. Johnstonii, <i>Tenison-Woods</i> .   | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 53.                               | Table Cape, <i>Tas</i> . |
| P. paracantha, <i>Tenison-Woods</i> .   | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 53.                               | Table Cape, <i>Tas</i> . |
| P. pullulascens, <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 52.                               | Table Cape, <i>Tas</i> . |
| P. sandleroides, <i>Tenison-Woods</i> . | Table Cape Series. | <i>Pleurot. (? Mangelia)</i> , *Notes Tertiary Foss. Tas. 1876, p. 52. | Table Cape, <i>Tas</i> . |

Genus **Pleurotomaria**, *DeFrance*, 1824 (see p. 85).

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| P. Australis, <i>M'Coy</i> (ms.). | Schnapper Pt. Series = Oligocene (L. Ter.). | Annals Nat. Hist. 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35.                                 | Schnapper Point, <i>Vict.</i> |
| P. Tertiaria, <i>M'Coy</i> .      |                                             | *Annals Nat. Hist. 1875, xvi. p. 101; *Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 23, t. 25, f. 1—1 b. | Moorabool R. <i>Vict.</i>     |

Genus **Pyramidella**, *Lamarck*, 1799 (Prodrome, p. 76; Stoliczka, Pal. Ind. II. p. 172; Adams, Genera, 1853, I. p. 228) = *Pyramidellus*, Montfort.  
*Prosobr.-Pyramidellidæ*.

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| P. Roberti, <i>Tenison-Woods</i> . | Table Cape Series (L. or M. Ter.?). | *Notes, Tertiary Foss. Tas. 1876, p. 62. | Table Cape, <i>Tas</i> . |
|------------------------------------|-------------------------------------|------------------------------------------|--------------------------|

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                       | Strat. Subdivision.                   | References.                                                                                                                                     | Localities, &c.                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Genus <b>Pyrula</b> , <i>Lamarck</i> , 1799. (Prodrome, p. 73; Système, 1801, p. 82.)— <i>Prosobr.</i>                                                                                                   |                                       |                                                                                                                                                 |                                         |
| <i>P. ? sp. ind.</i>                                                                                                                                                                                     | Murray River Series (L. or M. Ter.?). | ? <i>Cypræa</i> , Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 25; <i>Pyrula</i> , Woods, Geol. Obs. S. Austr. 1862, p. 78, fig. | Murray R. Cliffs, <i>S. Australia</i> . |
| Genus <b>Rissoa</b> , <i>Fréminville</i> , 1814. (Bull. Soc. Philomatique, IV.; Adams, Genera, 1854, I. p. 329; Stoliczka, Pal. Indica, II. p. 277.)— <i>Prosobr.-Rissoïdæ</i> .                         |                                       |                                                                                                                                                 |                                         |
| <i>R. Stevensiana</i> , <i>Tenison-Woods</i> .                                                                                                                                                           | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 48.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| Genus <b>Rissoina</b> , <i>d'Orbigny</i> , 1840 (see p. 114).— <i>Prosobr.-Rissoïdæ</i> .                                                                                                                |                                       |                                                                                                                                                 |                                         |
| <i>R. Johnstoni</i> , <i>Tenison-Woods</i> .                                                                                                                                                             | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 49.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| <i>R. Tateana</i> , <i>Tenison-Woods</i> .                                                                                                                                                               | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 62.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| <i>R. varicifera</i> , <i>Tenison-Woods</i> .                                                                                                                                                            | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 49.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| Genus <b>Syrnola</b> , <i>A. Adams</i> , 1860. (Annals Nat. Hist. V. p. 405; Proc. Zool. Soc. 1862, p. 233; Stoliczka, Pal. Indica, II. p. 173.)— <i>Prosobr.-Pyramidellidæ</i> .                        |                                       |                                                                                                                                                 |                                         |
| <i>S. bifasciata</i> , <i>Tenison-Woods</i> .                                                                                                                                                            | Table Cape Series.                    | *Proc. R. Soc. Tas. for 1875 (1876) !; Notes, Tertiary Foss. Tas. 1876, p. 47.                                                                  | Table Cape, <i>Tas.</i>                 |
| Genus <b>Tenagodus</b> , <i>Guetlard</i> , 1774 (or 1770? Mem. Sci. et Arts, III. p. 128; Mörch, Proc. Zool. Soc. 1860, pp. 400 and 402; Adams, Genera, 1854, I. p. 360).<br><i>Prosobr.-Vermetidæ</i> . |                                       |                                                                                                                                                 |                                         |
| <i>T. oclusus</i> , <i>Tenison-Woods</i> .                                                                                                                                                               | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 48.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| Genus <b>Terebra</b> , <i>Adanson</i> , 1757. (Hist. Nat. Sénégal, 1er. pt. p. 49; Lamarck, Prodrome, 1799, p. 71; Adams, Genera, I. 1853, p. 226.)<br><i>Prosobr.-Terebridæ</i> .                       |                                       |                                                                                                                                                 |                                         |
| <i>T. additoides</i> , <i>Tenison-Woods</i> .                                                                                                                                                            | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 43.                                                                                                        | Table Cape, <i>Tas.</i>                 |
| <i>T. simplex</i> , <i>Tenison-Woods</i> .                                                                                                                                                               | Table Cape Series.                    | *Proc. R. Soc. Tas. for 1875 (1876), p. 21.                                                                                                     | Table Cape, <i>Tas.</i>                 |
| Genus <b>Thala</b> , <i>H. and A. Adams</i> , 1853. (Genera of Shells, I. p. 178.)<br><i>Prosobr.-Mitridæ</i> .                                                                                          |                                       |                                                                                                                                                 |                                         |
| <i>T. marginata</i> , <i>Tenison-Woods</i> .                                                                                                                                                             | Table Cape Series.                    | *Notes, Tertiary Foss. Tas. 1876, p. 56.                                                                                                        | Table Cape, <i>Tas.</i>                 |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                               | Strat. Subdivision.                                                              | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Genus <b>Thalotia</b> , <i>J. E. Gray</i> , 1840. (Synop. Contents Brit. Mus. !; Adams, Genera, 1854, I, p. 420.)— <i>Prosobr.-Turbinidæ</i> .                                   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <i>T. alternata</i> , <i>Tenison-Woods</i> .                                                                                                                                     | Table Cape Series.                                                               | *Notes, Tertiary Foss. Tas. 1876, p. 45.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Table Cape, <i>Tas.</i>                     |
| Genus <b>Torinia</b> , <i>J. E. Gray</i> , 1840. (Synop. Contents Brit. Mus. !; Adams, Genera, 1854, I, p. 242; Stoliczka, Pal. Indica, II, p. 249.)— <i>Prosobr.-Solaridæ</i> . |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <i>T. gibbuloides</i> , <i>Tenison-Woods</i> .                                                                                                                                   | Table Cape Series.                                                               | *Notes, Tertiary Foss. Tas. 1876, p. 45.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Table Cape, <i>Tas.</i>                     |
| Genus <b>Triton</b> , <i>Montfort</i> , 1810. (Conch. Syst. II, p. 587.) Vide <i>Tritonium</i> , <i>Link</i> .                                                                   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <i>T. Abboti</i> , <i>Tenison-Woods</i> .                                                                                                                                        |                                                                                  | Vide <i>Tritonium</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |
| <i>T. minimum</i> , <i>Tenison-Woods</i> .                                                                                                                                       |                                                                                  | Vide <i>Tritonium</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |
| Genus <b>Tritonium</b> , <i>Link</i> , 1807 (Adams, Genera, 1853, I, p. 101) = <i>Triton</i> , <i>Montfort</i> . <i>Prosobr.-Tritoniidæ</i> .                                    |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <i>T. Abboti</i> , <i>Tenison-Woods</i> .                                                                                                                                        | Table Cape Series.                                                               | <i>Triton</i> . *Proc. R. Soc. Tas. for 1875 (1876), p. 24, f. 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Table Cape, <i>Tas.</i>                     |
| <i>T. minimum</i> , <i>Tenison-Woods</i> .                                                                                                                                       | Table Cape Series.                                                               | <i>Triton</i> . *Notes, Tertiary Foss. Tas. 1876, p. 55.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Table Cape, <i>Tas.</i>                     |
| Genus <b>Trivia</b> , <i>Gray</i> , 1832. (Descrip. Cat. Shells, Cowries, p. 13; Adams, Genera, 1854, I, p. 268.)— <i>Prosobr.-Cypræidæ</i> .                                    |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <i>T. avellanoides</i> , <i>M'Coy</i> .                                                                                                                                          | Schnapper Pt. Series = Oligocene (L. Ter.).<br>Hamilton Series (L. or M. Ter.?). | Exhib. Essay, 1861, p. 169; <i>Annals Nat. Hist.</i> 1862, IX, p. 146; <i>ibid.</i> 1867, XX, p. 194; <i>Cypræa</i> , <i>ibid.</i> id. p. 436; <i>Trivia</i> , <i>Smyth's Progress Report</i> , 1874, p. 35; <i>Cypræa</i> , <i>Geol. Survey, Vict.</i> Dec. III, 1876, p. 36, t. 28, f. 3 a—c.                                                                                                                                                                                                                                                               | Schnapper Point, and Muddy Ck. <i>Vict.</i> |
| <i>T. Europea</i> , <i>Montagu</i> .                                                                                                                                             | Table Cape Series (L. or M. Ter.?).                                              | *Test. Brit. 1808, p. 88; <i>Cypræa coccinella</i> , <i>Lamarck</i> , *Ann. Museum, 1810, XVI, p. 104; <i>C. Europea</i> , <i>Gray</i> , <i>Zool. Jour.</i> 1827, III, p. 366; <i>C. coccinella</i> , <i>Nyst</i> , *Descrip. Coq. Foss. Terr. Tert. Belgique, 1843, p. 609; <i>C. Europea</i> , <i>Searles Wood</i> , *Mon. Crag. Moll. 1848, pt. 1, p. 17, t. 2, f. 6; <i>ibid.</i> <i>Hörmes</i> , *Foss. Moll. Tert.-Beckens Wien, 1856, I Bd. p. 73, t. 8, f. 15; <i>ibid.</i> <i>Fleming</i> , *Brit. Animals, 1828, p. 330; <i>ibid.</i> <i>Forbes</i> | Table Cape, <i>Tas.</i>                     |



## (Gasteropoda.)

## (Tertiary.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                                                                                                                                                       | Localities, &c. |
|--------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                    |                     | and Hanley, *Hist. Brit. Moll. 1853, iii. p. 495, t. 114 a, f. 6—9, t. N. N. f. 5—7; <i>ibid.</i> Gwyn-Jeffreys, *Brit. Con. 1867, iv. p. 403; <i>Trivia</i> , H. and A. Adams, Genera, 1854, i. p. 268; <i>ibid.</i> Woods, Notes, Tert. Foss. Tas. 1876, p. 57. |                 |

Genus **Trochita**, *Schumacher*, 1817. (Essai Nouv. Syst. Hab. Vers. Test. 1817, p. 184.) Vide *Infundibulum*, Montfort.—*Prosobr.-Calyptræidæ*.

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| <i>T. calyptræformis</i> ,<br><i>Deshayes</i> . |  | Vide <i>Infundib. calyptræformis</i> . |  |
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Genus **Trochus**, *Linnaeus*, 1758 (see p. 87).—*Prosobr.-Turbinidæ*.

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| <i>T. Josephi</i> , <i>Tenison-Woods</i> . | Table Cape Series.                         | *Notes, Tertiary Foss. Tas. 1876, p. 45.                                                                      | Table Cape, <i>Tas</i> .                              |
| <i>T. ? sp. ind.</i>                       | Murray River Series, &c. (L. or M. Ter.?). | Sturt, Two Expds. Int. S. Austr. 1832, ii. p. 255, t. 3, f. 19; Woods, Geol. Obs. S. Austr. 1862, p. 77, fig. | Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i> |

Genus **Turbo**, *Linnaeus*, 1758 (see p. 87).—*Prosobr.-Turbinidæ*.

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| <i>T. Etheridgei</i> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 46. | Table Cape, <i>Tas</i> . |
|-----------------------------------------------|--------------------|------------------------------------------|--------------------------|

Genus **Turbonilla** (*Leach*), *Risso*, 1826 (Hist. Nat. Europe Merid. iv. p. 224; Stoliczka, Pal. Indica, ii. p. 174; Meek, Cret. Invert. Foss. Up. Missouri, 1876, p. 337)=*Chemnitzia*, d'Orb. 1839.—*Prosobr.-Pyramidellidæ*.

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| <i>T. liræcostata</i> , <i>Tenison-Woods</i> . | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 49. | Table Cape, <i>Tas</i> . |
| <i>T. pagoda</i> , <i>Tenison-Woods</i> .      | Table Cape Series. | *Notes, Tertiary Foss. Tas. 1876, p. 49. | Table Cape, <i>Tas</i> . |

Genus **Turritella**, *Lamarck*, 1799 (see p. 88).—*Prosobr.-Turritellidæ*.

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| <i>T. Sturtii</i> , <i>Tenison-Woods</i> .     | Table Cape Series.                         | *Notes, Tertiary Foss. Tas. 1876, p. 47.                                                                                             | Table Cape, <i>Tas</i> .                              |
| <i>T. Tasmanica</i> , <i>Tenison-Woods</i> .   | Table Cape Series.                         | *Proc. R. Soc. Tas. for 1875 (1876), p. 17.                                                                                          | Table Cape, <i>Tas</i> .                              |
| <i>T. Warburtonii</i> , <i>Tenison-Woods</i> . | Table Cape Series.                         | *Notes, Tertiary Foss. Tas. 1876, p. 47.                                                                                             | Table Cape, <i>Tas</i> .                              |
| <i>T. sp. ind. (a)</i> .                       | Murray River Series, &c. (L. or M. Ter.?). | Sturt, Two Expds. Int. S. Austr. 1832, ii. p. 255, t. 3, f. 20; <i>T. terebralis</i> , Woods, Geol. Obs. S. Austr. 1862, p. 83, fig. | Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i> |
| <i>T. sp. ind. (b)</i> .                       | "Turritella limestone."                    | Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 36.                                                                        | Flinders' Island, Bass' Straits.                      |

## (Gasteropoda.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                                                        | Strat. Subdivision.                                        | References.                                                                                                                                                                                                                                              | Localities, &c.                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Genus <b>Typhis</b> , <i>Montfort</i> , 1810. (Conch. Syst. ii. p. 615; Adams, Genera, 1853, i. p. 76; Stoliczka, Pal. Indica, ii. p. 128.)— <i>Prosobr.-Muricidæ</i> .                                                                                   |                                                            |                                                                                                                                                                                                                                                          |                                                                                       |
| <b>T. M'Coyi</b> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                 | Table Cape Series.                                         | *Proc. R. Soc. Tas. for 1875 (1876), p. 22.                                                                                                                                                                                                              | Table Cape, <i>Tas.</i>                                                               |
| Genus <b>Vermetus</b> , <i>Adanson</i> , 1757. (Hist. Nat. Sénégal, p. 160; Mörch. Proc. Zool. Soc. 1861, p. 334; Lamarek, Histoire, 1822, vii. p. 224; Adams, Genera, 1854, i. p. 357; Stoliczka, Pal. Indica, ii. p. 239.)— <i>Prosobr.-Vermetidæ</i> . |                                                            |                                                                                                                                                                                                                                                          |                                                                                       |
| <b>V. conohelix</b> , <i>Tenison-Woods</i> .                                                                                                                                                                                                              | Table Cape Series.                                         | *Notes, Tertiary Foss. Tas. 1876, p. 48.                                                                                                                                                                                                                 | Table Cape, <i>Tas.</i>                                                               |
| Genus <b>Voluta</b> , pars, <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 729; Lamarek, Prodrôme, 1799, p. 70; Adams, Genera, 1853, i. p. 164.)— <i>Prosobr.-Volutidæ</i> .                                                                                |                                                            |                                                                                                                                                                                                                                                          |                                                                                       |
| <b>V. anticingulata</b> , <i>M'Coy</i> .                                                                                                                                                                                                                  | Schnapper Pt. Series = Oligocene (L. Ter.), &c.            | *Annals Nat. Hist. 1866, xviii. p. 379; <i>ibid.</i> 1867, xx. p. 193; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. i. 1874, p. 24, t. 6, f. 2—4; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33.                       | Schnapper Point, and Bird Rock, near Geelong, <i>Vict.</i><br>Table Cape, <i>Tas.</i> |
| <b>V. antiscalaris</b> , <i>M'Coy</i> .                                                                                                                                                                                                                   | Schnapper Pt. Series = Oligocene (L. Ter.), &c.            | *Annals Nat. Hist. 1866, xviii. p. 378; <i>ibid.</i> 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. i. 1874, p. 26, t. 6, f. 5; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16.                                     | Mount Martha; Moolap; Fyan's Ford, <i>Vict.</i><br>Table Cape, <i>Tas.</i>            |
| <b>V. Hannafordi</b> , <i>M'Coy</i> .                                                                                                                                                                                                                     | Schnapper Pt. Series = Oligocene (L. Ter.), &c.            | *Annals Nat. Hist. 1866, xviii. p. 375; <i>ibid.</i> 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. i. 1874, p. 23, t. 6, f. 1; *Dec. iv. 1876, p. 25, t. 37, f. 1; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16. | Mounts Martha and Eliza; Fyan's Ford; Muddy Ck.; Port Fairy, <i>Vict.</i>             |
| <b>V. M'Coyi</b> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                 | Table Cape Series.                                         | *Notes, Tertiary Foss. Tas. 1876, p. 43.                                                                                                                                                                                                                 | Table Cape, <i>Tas.</i>                                                               |
| <b>V. macroptera</b> , <i>M'Coy</i> .                                                                                                                                                                                                                     | M. Ter. (Miocene?).<br>Table Cape Series (L. or M. Ter.?). | *Annals Nat. Hist. 1866, xviii. p. 375; <i>ibid.</i> 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. i. 1874, p. 29, t. 7, figs. 1—4; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16.                                | Bird Rock, near Geelong, <i>Vict.</i><br>Table Cape, <i>Tas.</i>                      |
| <b>V. strophodon</b> , <i>M'Coy</i> .                                                                                                                                                                                                                     | Schnapper Pt. Series = Oligocene (L. Ter.).                | Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. iv. 1876, p. 25, t. 37, f. 2—4 c.                                                                                                                                                        | Schnapper Point, <i>Vict.</i>                                                         |
| <b>V. Weldii</b> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                 | Table Cape Series.                                         | *Proc. R. Soc. Tas. for 1875 (1876), p. 24, f. 2.                                                                                                                                                                                                        | Table Cape, <i>Tas.</i>                                                               |

## (Cephalopoda—Pisces.)

## (Tertiary.)

| Genus and Species.                                                                                                                                                                                                           | Strat. Subdivision. | References.                              | Localities, &c.          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------|--------------------------|
| Genus <i>Ziziphinus</i> ( <i>Leach</i> , ms. 1819). <i>Gray</i> , 1840. (Fig. Moll. Animals, iv. p. 145; <i>Stoliczka</i> , Pal. Indica, ii. p. 365; <i>Adams</i> , Genera, 1854, i. p. 421.)<br><i>Prosobr.-Turbinidæ</i> . |                     |                                          |                          |
| <i>Z. Blaxlandii</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                | Table Cape Series.  | *Notes, Tertiary Foss. Tas. 1876, p. 44. | Table Cape, <i>Tas</i> . |

## Class—Cephalopoda. Orders—Di- and Tetrabranchiata.

Genus *Aturia*, *Bronn*, 1838 (*Lethæa*, Geog. ii. p. 1122; *F. E. Edwards*, Mon. Eocene Moll. pt. 1, 1849, Ceph. p. 51) = *Megasiphonia*, d'Orb.—*Nautilidæ*.

|                                        |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <i>A. Australis</i> , <i>M'Coy</i> .   |                                                             | Vide <i>A. ziczac</i> , <i>J. Sow</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                             |
| <i>A. ziczac</i> , <i>J. Sowerby</i> . | Mt. Gambier Series (L. or M. Ter.?).<br>M. Ter. (Miocene?). | <i>Nautilus</i> , *Min. Con. i. p. 12, t. 1, lower fig.; <i>Aturia</i> , <i>Edwards</i> , *Mon. Eocene Moll. pt. 1, Ceph. 1849, p. 52, t. 9, f. 1; <i>Nautilus</i> , <i>Tenison-Woods</i> , Geol. Obs. S. Austr. 1862, p. 83, fig.; <i>A. Australis</i> , <i>M'Coy</i> , Annals Nat. Hist. 1867, xx. p. 192; <i>id.</i> Smyth's Progress Report, i. 1874, p. 36; <i>A. ziczac</i> , var. <i>Australis</i> , <i>M'Coy</i> , *Geol. Survey, Vict. Dec. iii. 1876, p. 21, t. 24, f. 1—5. | Mount Gambier, <i>S. Australia</i> .<br>Bird Rock Point;<br>Point Addis;<br>Flemington;<br>Mordialloc, &c.<br><i>Vict</i> . |

Genus *Belemnites* (*Agricola*).—*Belemnitidæ*.

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| <i>B. senescens</i> , <i>Tate</i> . | M. Ter. (Miocene?). | *Quart. Jour. Geol. Soc. 1877, xxxiii. p. 257, f. 1. | Aldinga, <i>S. Austr</i> . |
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Genus *Nautilus*, *Breynius*, 1732 (see p. 90).—*Nautilidæ*.

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| <i>N. ziczac</i> , <i>J. Sowerby</i> . | Vide <i>Aturia</i> . |
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## Sub-kingdom—Vertebrata. Class—Pisces.

## Order—Elasmobranchii or Placoidei.

Genus *Carcharodon* (*A. Smith*), *L. Agassiz*, 1843. (Pois. Foss. iii. p. 245; *Henle* and *Corda*, Systemat. Beschreibung Plagios. 1841, p. 70; *Gunther*, Cat. Fishes, Brit. Mus. 1876, viii. p. 391.)—*Selachii*.

|                                          |                                                            |                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
|------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <i>C. angustidens</i> , <i>Agassiz</i> . | M. Ter. (Miocene?).<br>Table Cape Series (L. or M. Ter.?). | *Pois. Foss. iii. p. 225, t. 28, figs. 20—25, t. 30, f. 3; <i>M'Coy</i> , Annals Nat. Hist. 1865, xvi. p. 113; <i>ibid.</i> <i>id.</i> 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, i. 1874, p. 35; <i>ibid.</i> *Geol. Survey, Vict. 1875, Dec. ii. p. 8, t. 11, figs. 2 and 3; <i>Johnston</i> , Notes, Tertiary Beds, Table Cape, <i>Tas</i> . 1876, p. 34. | Bird Rock, near Geelong, <i>Vict</i> .<br>Table Cape, <i>Tas</i> . |
|------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|

## (Pisces—Mammalia.)

## (Tertiary.)

| Genus and Species.                        | Strat. Subdivision. | References.                                                                                                                                                                                                                                | Localities, &c.                |
|-------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <i>C. megalodon</i> ,<br><i>Agassiz</i> . | M. Ter. (Miocene?). | *Poiss. Foss. III. p. 247, t. 29; M'Coy, Annals Nat. Hist. 1865, xvi. p. 113; <i>ibid. id.</i> 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35; <i>ibid.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 9, t. 11, f. 4. | Bird Rock, near Geelong, Vict. |

Genus *Lamna*, Cuvier, 1817. (Règne Animal, II. p. 126; Agassiz, Poiss. Foss. 1843, III. p. 287.)—*Selachii*.

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| <i>L. contortidens</i> ,<br><i>Agassiz</i> . |                    | *Poiss. Foss. III. p. 294, t. 37 a, figs. 17—32; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.                                                                                     | Victoria.                  |
| <i>L. denticulata</i> ,<br><i>Agassiz</i> .  |                    | *Poiss. Foss. III. p. 291, t. 37 a, figs. 51—53; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.                                                                                     | Victoria.                  |
| <i>L. elegans</i> , <i>Agassiz</i> .         | Table Cape Series. | *Poiss. Foss. III. p. 289, t. 35, figs. 1—7, t. 37 a, figs. 58 and 59; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 34. | Table Cape, Tas. Victoria. |

Genus *Otodus*, *Agassiz*, 1843. (Poiss. Foss. III. p. 266.)—*Selachii*.

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| <i>O. Desori</i> , <i>Agassiz</i> . |  | M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35. | Victoria. |
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Genus *Oxyrhina*, *Agassiz*, 1843. (Poiss. Foss. III. p. 276.)—*Selachii*.

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| <i>O. trigonodon</i> ,<br><i>Agassiz</i> . |                                      | *Poiss. Foss. III. p. 279, t. 37, figs. 17 and 18; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35. | Victoria.                    |
| <i>O. Woodsii</i> , <i>M'Coy</i> .         | Mt. Gambier Series (M. or L. Ter.?). | Woods, Geol. Obs. S. Austr. 1862, p. 80, fig.                                                                                                       | Mount Gambier, S. Australia. |

Class—Mammalia. Section—Implacentalia. Order—Marsupialia.

Genus *Bettongia*, Gray, 1837. (Annals Nat. Hist. I. p. 584.)—*Perphaga-Macropodidae*.

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| <i>B. cuniculoides</i> ,<br><i>M'Coy</i> . |  | Geol. Survey, Vict. Section $\frac{1}{2}$ sheet, 14 N. W. note 12. | Loddon River, near Dunolly, Vict. |
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## (Mammalia.)

## (Tertiary.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
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Genus **Nototherium**, *Owen*, 1845. (Brit. Ass. Rept. for 1844, p. 231.)  
*Carpophaga-Phalangistidae*.

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| <i>N. sp. ind.</i> | U. Ter. (Miocene?). | M'Coy, in Smyth's Progress Report, i. 1874, p. 35. |  |
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Genus **Phascolomys**, *Geoffroy*, 1803. (Ann. Museum, ii. p. 365.)  
*Rhizophaga-Phascolomydæ*.

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| <i>P. Pliocenus</i> , <i>M'Coy</i> . | Gold Drift (Pliocene?). | Ex. Essay, 1861, p. 168; Annals Nat. Hist. 1862, ix. p. 145; <i>ibid.</i> 1867, xx. p. 190; Smyth, Geol. Mag. 1872, ix. p. 336; M'Coy in Smyth's Progress Report, i. 1874, p. 36; <i>id.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 21, t. 3, 4 and 5; <i>id.</i> Couchman's Progress Report, 1877, iv. p. 156. | Dunolly; Loddon Riv. nr. Dunolly; Bet-Bet Creek, Vict. |
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Genus **Sarcophilus**, *F. Cuvier*, 1838. (Hist. Nat. Mammif. vii. 70me Livre, p. 2.)  
*Sarcophaga*.

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| <i>S. ursinus</i> , <i>Harris</i> . | Gold Drift (Pliocene?). | <i>Didelphis</i> , *Trans. Linn. Soc. ix. p. 176, t. 19, f. 2; <i>Sarcophilus</i> , M'Coy, Geol. Survey, Vict. Section $\frac{1}{2}$ sheet, 14 N.W. note 12; <i>id.</i> Annals Nat. Hist. 1867, xx. p. 191. | Loddon River, near Dunolly, Vict. |
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## Section—Placentalia. Order—Cetacea.

Genus **Squalodon**, *Grateloup*, 1840 (Actes Soc. Linn. Bordeaux, no. 56, p. 346)  
 ? = *Phocodon*, Ag.—*Zeuglodontidae*.

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| <i>S. Wilkinsoni</i> ,<br><i>M'Coy</i> . | M. Ter. (Miocene?). | *Geol. Mag. 1864, rv. p. 145, t. 8, f. 1; <i>Seals Tooth</i> , Wilkinson, Geol. Rept. C. Otway, Dist. 1865, p. 23; <i>Phocodon</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 191; <i>ibid.</i> <i>id.</i> Smyth's Progress Report, 1874, p. 36; <i>Squalodon</i> , <i>ibid.</i> *Geol. Survey, Vict. 1875, Dec. ii. p. 7, t. 11, f. 1; <i>id.</i> v. Beneden and P. Gervois, Ostéogr. Cétacés viv. et foss. liv. xiii. p. 442. | W. of Aire River, near Cape Otway, Vict. |
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## Order—Carnivora.

Genus **Arctocephalus**, *F. Cuvier*, 1824. (Mém. du Mus. d'Hist. Nat. xi. p. 205; Dict. Sci. Nat. 1826, xxxix. p. 553; J. E. Gray, Cat. Seals and Whales, Brit. Mus. 2nd ed. 1866, p. 47; Supp. Cat. *ibid.* 1871, p. 17; Hand List, *ibid.* 1874, p. 32.)—*Phocidæ*.

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| <i>A. Williamsi</i> , <i>M'Coy</i> . | U. Ter. (Pliocene?). | *Geol. Survey Vict. Dec. v. 1877, p. 7, t. 41 and 42. | Queenscliff; Cape Otway, Vict. |
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POST TERTIARY.





## (Brachiopoda—Gasteropoda.)

## (Post Tertiary.)

| Genus and Species.                                                                              | Strat. Subdivision. | References.                                                                                                        | Localities, &c. |
|-------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------|-----------------|
| <i>Sub-kingdom—Mollusca. Section—Molluscoidea. Class—Brachiopoda.</i>                           |                     |                                                                                                                    |                 |
| Genus <i>Terebratella</i> , d'Orbigny, 1847 (see p. 151).— <i>Clistenterata-Terebratulidæ</i> . |                     |                                                                                                                    |                 |
| <i>T. compta</i> , G. B. Sowerby.                                                               | Raised beach.       | <i>Terebratula</i> , Strzelecki's *Phys. Deser. N. S. Wales, p. 297, t. 19, f. 4 (see ante, p. 151, for synonymy). | Port Fairy.     |

*Section—Mollusca proper. Class—Pelecypoda (Conchifera).*Genus *Venus*, Linnaeus, 1758 (see p. 79).—*Veneracea-Veneridæ*.

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| <i>V. exalbata</i> , Woods. | P. T. Lime-stone.    | Geol. Obs. S. Austr. 1862, p. 190 (? = <i>V. exalbida</i> , Chemnitz. Neues System Conchylum, Cab. xi. 1795, p. 225, t. 20, f. 1974). | Coorong, S. Austr. |
| <i>V. strigosa</i> , Woods. | Quaternary Deposits. | Trans. R. Soc. Vict. 1868, viii. p. 46 (? = <i>V. strigosa</i> , Lamarck, Hist. Nat. des Anim. s. Vertéb. v. 1818, p. 605).           | Guichen Bay, Vict. |

*Class—Gasteropoda.*Genus *Bulimus*, Scopoli, 1777. (Introd. Hist. Nat. p. 392; Lamarck, Système, 1801, p. 90; Histoire, 1822, vi. pt. 2, p. 116; Adams, Genera, 1855, ii. p. 146.)  
*Pulmonifera-Helicidæ*.

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| <i>B. Gunnii</i> , G. B. Sowerby. | Yellow Lime-stone of Hobart Town. | Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 298, t. 19, f. 5. | Hobart Town, Tas. |
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Genus *Bulla*, Klein, 1753 (see p. 159).—*Opisthobranchiata-Bullidæ*.

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| <i>B. Australis</i> , Quoy. | Quaternary Deposits. | Woods, Trans. R. Soc. Vict. viii. p. 46; Quoy, Voy. de l'Astrolabe, Zoologie, ii. p. 357, Atlas, t. 26, f. 38, 39; Deshayes and M. Edwards, Lamarck's Histoire Nat. Anim. s. Vertéb. 1836, viii. p. 673. | Perth, W. Austr. |
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Genus *Cerithium*, Adanson, 1757 (see p. 114).—*Prosobranchiata-Cerithiadæ*.

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| <i>C. sp. ind.</i> | P. T. Lime-stone. | Woods, *Geol. Obs. S. Austr. 1862, p. 190 fig. | Coorong, S. Austr. |
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## (Gasteropoda—Reptilia.)

## (Post Tertiary.)

| Genus and Species.                                                                                                                                                                   | Strat. Subdivision.              | References.                                                                                                              | Localities, &c.          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Genus <i>Cypræa</i> , <i>Linnaeus</i> , 1758 (see p. 161).— <i>Prosobranchiata-Cypræidæ</i> .                                                                                        |                                  |                                                                                                                          |                          |
| <i>C. eximia</i> , <i>G. B. Sowerby</i> .                                                                                                                                            | Blown Sand (?)                   | Strzelecki's *Phys. Deser. N. S. Wales and V. D. Land, 1845, p. 296, t. 19, figs. 1—3 (see ante, p. 161, for synonymy).  | Franklin's Village, Tas. |
| Genus <i>Fusus</i> , <i>Klein</i> , 1758 (see p. 164).                                                                                                                               |                                  |                                                                                                                          |                          |
| <i>F. colosseus</i> , <i>Tenison-Woods</i> .                                                                                                                                         | Quaternary Deposits.             | Trans. R. Soc. Vict. 1868, viii. p. 45 (? = <i>F. colosseus</i> , Lamarek, Histoire Anim. s. Vertéb. 1822, vii. p. 122). | Perth, W. Austr.         |
| Genus <i>Helix</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 768; Adams, Genera, 1855, ii. p. 188.) <i>Pulmon.-Helicidæ</i> .                                                   |                                  |                                                                                                                          |                          |
| <i>H. Tasmaniensis</i> , <i>G. B. Sowerby</i> .                                                                                                                                      | Yellow Limestone of Hobart Town. | Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 298, t. 19, f. 6.                                                       | Hobart Town, Tas.        |
| Genus <i>Truncatella</i> , <i>Risso</i> , 1826. (Europe Mérid. iv. p. 124; Adams, Genera, 1856, ii. p. 310; Pfeiffer, Brit. Mus. Cat. 1857, p. 129).— <i>Pulmon.-Truncatellidæ</i> . |                                  |                                                                                                                          |                          |
| <i>T. filosa</i> , <i>?M'Coy</i> (ms.).                                                                                                                                              | P. Ter. fresh-water Limestone.   | In Taylor's $\frac{1}{2}$ sheet 2, S. W. Geol. Survey, Vict. note.                                                       | Moonee Ponds Ck. Vict.   |

## Sub-kingdom—Vertebrata. Class—Reptilia.

Genus *Chlamydosaurus*, *J. E. Gray*, 1827. (King's Survey, Coasts of Australia, ii. p. 424; Dumbriil et Bibron, Erpét. Générale, 1837, iv. p. 440; Gray, Brit. Mus. Cat. Lizards, 1845, p. 248).—*Lacertilia-Agamidæ*.

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| <i>C. Bennettii</i> , <i>Owen</i> (ms.). | Quaternary Deposits. | <i>G. Bennett</i> , Proc. R. Soc. Tas. for 1875 (1876) p. 57. | Gowree Station, Darling Downs, Qu. |
|------------------------------------------|----------------------|---------------------------------------------------------------|------------------------------------|

Genus *Megalania*, *Owen*, 1858. (Proc. R. Soc. ix. p. 273; Phil. Trans. 1860, cxlix.) *Lacertilia*.

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| <i>M. prisca</i> , <i>Owen</i> . | Quaternary Deposits. | Proc. R. Soc. ix. p. 273; Phil. Trans. 1860, cxlix. p. 43, t. 7, f. 1—4, t. 8, f. 1—4; d'Archiac, Faune Quaternaire, 1865, p. 273; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, p. 52. | Condamine River, Moreton Bay, Qu. |
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Notes.—Order, CHELONIA. The carapace of a fresh-water form, about 8 in. in length, has been obtained from the bone caves of Wellington Valley, N. S. Wales. (Krefft, Australian Vert. p. 39.)

SAURIAN REPTILES. From the same caves have also been obtained bones of the following genera: *Hydrosaurus*, *Cyclodus*, *Trachydosaurus*, *Tropidolepisma*, and *Grammatophora*. (Krefft, l. c. p. 49.)

Order, CROCODILIA. Fossil Crocodile teeth appear to have been first found in Australia by Mr S. Stutchbury. Examples were also found by Mr R. Daintree, in the *Diprotodon*-breccia of Maryvale Creek, N. Q. (Quart. Jour. Geol. Soc. xxviii. p. 274.)

(Aves—Marsupialia.)

(Post Tertiary.)

| Genus and Species.                                                                                                                  | Strat. Subdivision.                               | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Localities, &c.                                                             |
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| <i>Class—Aves.</i>                                                                                                                  |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             |
| Genus <b>Dromornis</b> , Owen, 1872. (Proc. Zool. Soc. p. 682; Trans. <i>id.</i> 1873, viii. pt. 4, p. 381.)— <i>Struthionidæ</i> . |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             |
| <b>D. Australis</b> , Owen.                                                                                                         | Quaternary Deposits (Drift 188 ft. from surface). | <i>Femur of Bird</i> , Mitchell's *Three Exped. Int. of E. Australia, 1838, ii. t. 32, f. 12 and 13; <i>Dinornis</i> , <i>sp.</i> Clarke, Geol. Mag. 1869, vi. p. 383; <i>id. ibid.</i> American Jour. Sc. 1870, XLIX. p. 273; <i>Dromornis Australis</i> , Owen, Proc. Zool. Soc. 1872, p. 682; <i>id.</i> *Trans. <i>ibid.</i> 1873, viii. pt. 4, pp. 381—384, t. 62, f. 1 and 2; <i>Dromornis</i> , <i>sp.</i> Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 53; <i>id.</i> Smyth's Progress Report, 1876, iii. p. 47; ? <i>Moa</i> , Krefft, Australian Vertebrata, 1871, p. 37. | Peak Downs, Qu.                                                             |
| <b>D. sp. ind.</b>                                                                                                                  |                                                   | Owen, Proc. Zool. Soc. 1877, pt. 1, p. 95.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Canadian Lead, Phillip Co., N. S. Wales.<br>Mt. Gambier Cave, S. Australia. |

*Class—Mammalia. Section—Implacentalia.**Orders—Monotremata and Marsupialia.*Genus **Belideus**, Waterhouse, 1838. (Pro. Zool. Soc. pt. vi. p. 149; Nat. Hist. Mam. 1846, ii. p. 325.)—*Carpophaga-Phalangistidæ*.

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| <b>B. breviceps</b> , Waterhouse. | <i>Petaurus</i> , *Nat. Hist. Mam. 1846, i. p. 334; <i>Belideus</i> , Krefft, Austr. Vert. 1871, p. 18. | N. S. Wales. |
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Genus **Bettongia**, J. E. Gray, 1837 (see p. 172).—*Pæphaga-Macropodidæ*.

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| <b>B. rufescens</b> , Gray. | Cave-breccia. | *Annals Nat. Hist. 1837, i. p. 584; Gould, Mon. Macropodidæ, 1841, pt. 1, t. 13; <i>Hypsiprymnus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 196; <i>Bettongia</i> , Krefft, Austr. Vert. 1871, p. 20. | Caves of Welling-ton Valley, N. S. Wales. |
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## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                                                                                                                                       | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                              | Localities, &c.                                                     |
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| Genus <b>Dasyurus</b> , <i>Geoffroy</i> , 1804. (Ann. Museum, iii. p. 355; Waterhouse, Nat. Hist. Mam. 1846, i. p. 432.)— <i>Sarcophaga-Dasyuridae</i> . |                     |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| <b>D. affinis</b> , <i>McCoy</i> .                                                                                                                       | Cave Deposit.       | Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note.                                                                                                                                                                                                                                                                   | Mt. Macedon Caves, Vict.                                            |
| <b>D. lanarius</b> , <i>Owen</i> .                                                                                                                       |                     | Vide <i>Sarcophilus</i> .                                                                                                                                                                                                                                                                                                |                                                                     |
| <b>D. maculatus</b> , <i>Shaw</i> .                                                                                                                      | Cave-breccia.       | <i>Viverra</i> , *General Zool. 1800, i. pt. 2, p. 433; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 439; <i>ibid.</i> Krefft, Austr. Vert. 1871, p. 21.                                                                                                                                                   | Caves of Wellington Valley, N. S. Wales.                            |
| <b>D. viverrinus</b> , <i>Shaw</i> .                                                                                                                     | Cave-breccia, &c.   | <i>Didelphis</i> , *General Zool. 1800, i. pt. 2, p. 491, t. 111; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 442; <i>ibid.</i> McCoy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>id.</i> Krefft, Austr. Vertebrata, 1871, p. 21; <i>id.</i> <i>ibid.</i> Mams. of Australia, 1871, t. 13. | Caves of Wellington Valley, N. S. Wales.<br>Mt. Macedon Cave, Vict. |

Genus **Diabolus**, *J. E. Gray*, 1841. (In Grey's Jour. Two Expeds. N. and N. W. Australia, pp. 400 and 411.)—Vide *Sarcophilus*.

**D. ursinus**, *Harris*. | Vide *Sarcophilus*. |

Genus **Diprotodon**, *Owen*, 1838. (Mitchell's Three Expeds. Int. E. Austr. ii. p. 362; Waterhouse, Nat. Hist. Mam. 1846, i. p. 233.)—*Carpophaga-Phalangistidae*.

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| <b>D. Australis</b> , <i>Owen</i> . | Cave-breccia, and Quaternary Deposits. | * <i>loc. cit.</i> p. 362, t. 31, f. 1 and 2; Proc. Zool. Soc. 1839, vii. p. 19; Trans. <i>id.</i> 1841, ii. p. 332; <i>Mastodontoid Pachyderm.</i> *Annals Nat. Hist. 1843, xi. p. 9, cuts, f. 2 and 3 (non f. 1); <i>Dinotherium</i> , * <i>ibid.</i> <i>id.</i> p. 329, f. 1, p. 330, f. 2; <i>Diprotodon</i> , *Brit. Assoc. Rep. 1844, p. 227; *Odontography, i. p. 399, Atlas, t. 90, f. 1—3; <i>D. Australis</i> , Annals Nat. Hist. 1844, xiv. p. 268; <i>id.</i> *Descrip. Cat. Mammalia and Aves R. Coll. Surgeons, 1845, pp. 291—313, nos. 1460—1504, t. 6, f. 1—5, t. 7, t. 10, f. 5—8; <i>id.</i> Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 299; <i>id.</i> Waterhouse, Nat. Hist. Mammalia, 1846, i. p. 233; <i>id.</i> d'Archiac, Progrès de la Géol. 1848, ii. pt. 1, p. 419; <i>id.</i> Macleay, Parl. Blue Book, Dec. 1854, p. 40; <i>id.</i> Leichhardt, <i>ibid.</i> p. 42; <i>id.</i> Owen, | Wellington Valley Caves, &c., N. S. Wales.<br>Portland, &c., Vict.<br>Welcome Springs and Hergot Springs, 500 m. N. of Adelaide, S. Australia.<br>Condamine River; King's Creek, Darling Downs; Maryvale Creek, &c., Qu. |
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(Marsupialia.)

(Post Tertiary.)

| Genus and Species.                | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c.                           |
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|                                   |                     | <p>Encycl. Brit. 1859, xvii. p. 175, f. 43; <i>id. ibid.</i> Quart. Jour. Geol. 1859, xv. t. 9, f. 6; <i>id. ibid.</i> Palæontology, 1860, p. 394, f. 139; <i>id. ibid. id.</i> 2nd ed. p. 430, f. 171; <i>id.?</i> Huxley, Quart. Jour. Geol. Soc. 1862, xviii. t. 21, f. 1—3; <i>id.</i> Woods, *Geol. Obs. S. Austr. 1862, p. 381; <i>id.</i> Hochstetter, Verhandl. Jahrb. K.K. Geol. Reichsanstalt, 1864, xiv. pp. 36 and 37; <i>id.</i> Krefft, Geol. Mag. 1865, ii. p. 573; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 271; <i>id.</i> Murray, Geograph. Dist. Mam. 1866, p. 363; <i>id.</i> Owen, Proc. R. Soc. 1870, xviii. p. 196; <i>id. ibid.</i> *Phil. Trans. 1870, clx. p. 519; <i>id.</i> Daintree, Quart. Jour. Geol. Soc. 1872, xxviii. p. 274; <i>id.</i> Owen, *Extinct Mam. Austr. 1877, pp. 189—244, 507—512, t. 19, f. 1—4, t. 20, t. 21, t. 22, t. 23, t. 24, f. 1—13, 16—18; t. 25, t. 26, t. 27, t. 28, t. 29, t. 30, t. 31, t. 32, t. 33, t. 34, t. 35, t. 122, f. 1—3, 7—10, t. 123, t. 124, and Frontispiece, <i>cuts</i>, f. 1 and 1 <i>a</i>, p. 189, f. 2, p. 204, f. 3 and 4, p. 209, f. 5, p. 212, f. 6, p. 219.</p> |                                           |
| D. Bennettii, Owen.               |                     | *Extinct Mam. of Australia, 1877, pp. 510—511.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mandoona, N. S. Wales.                    |
| D. longiceps, M <sup>c</sup> Coy. |                     | *Trans. R. Soc. Vict. vi. p. 25; <i>ibid.</i> 1869, ix. pt. 2, p. 78; Annals Nat. Hist. 1867, xx. p. 191; Smyth's Progress Rept. 1874, i. p. 36; *Geol. Survey, Vict. Dec. 4, 1876, pp. 7—11, t. 31, t. 32, t. 33, <i>cut</i> , p. 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Colac; Limeburner's Point, Geelong, Vict. |
| D. minor, Huxley.                 |                     | *Quart. Jour. Geol. Soc. 1862, xviii. p. 422, t. 21, f. 4—6; ? <i>Nototherium</i> , <i>sp.</i> Owen, Extinct Mam. of Australia, 1877, p. 511.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Gowrie, Darling Downs, Qu.                |

Genus **Echidna**, Cuvier, 1797 (Tabl. Élémentaire, p. 143; Waterhouse, Nat. Hist. Mam. 1846, i. p. 40) = *Trachyglossus*, Illiger. — *Monotremata*.

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| E. Owenii, Krefft. | Cave-breccia. | *Annals Nat. Hist. 1868, i. p. 113, f. 1—5; Austr. Vertebrata, 1871, p. 22. | Wellington Valley Caves, N. S. Wales. |
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## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                                                                                                                                                 | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                       |
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| Genus <i>Halmaturus</i> , <i>Illiger</i> , 1811. (Prod. Syst. Mam. et Avium, p. 80; Waterhouse, Nat. Hist. Mam. 1846, i. p. 94.)— <i>Perphaga-Macropodidæ</i> .    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| <i>H. Bennettii</i> , <i>Waterhouse</i> .                                                                                                                          | Subfossil ?.         | <i>Macropus</i> , *Proc. Zool. Soc. 1837, p. 103; <i>id.</i> Owen, Trans. Zool. Soc. ii. 1841, t. 71, f. 5; <i>M. ruficollis</i> , var. <i>Bennettii</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 130; <i>M. Bennettii</i> , Owen, *Descrip. Cat. Osteol. Series R. Coll. Surgeons, 1853, i. pp. 324, 325, nos. 1740—1743; <i>Halmaturus</i> , Murie and Bartlett, Proc. Zool. Soc. 1866, pp. 28, 31, and 32; <i>id.</i> Krefft, Trans. R. Soc. N. S. Wales for 1867 (1868), i. p. 30. | Glenorchy Cave, Tas.                  |
| <i>H. Scottii</i> , <i>Krefft</i> (ms.).                                                                                                                           |                      | Austr. Vert. 1871, p. 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <i>H. Thomsonii</i> , <i>Krefft</i> (ms.).                                                                                                                         |                      | Austr. Vert. 1871, p. 20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <i>H. sp. ind.</i> (1).                                                                                                                                            | Cave-breccia.        | Owen, in Mitchell's *Three Expeds. Int. E. Austr. 1838, ii. p. 361, t. 30, f. 1 and 2, no. 6; Krefft, Geol. Mag. 1865, ii. p. 572; Woods, *Geol. Obs. S. Austr. 1862, p. 380.                                                                                                                                                                                                                                                                                                            | Wellington Valley Caves, N. S. Wales. |
| <i>H. sp. ind.</i> (2).                                                                                                                                            | Cave-breccia.        | Owen, in Mitchell's *Three Expeds. Int. E. Austr. 1838, ii. p. 361, t. 30, f. 3, no. 6 a; Woods, *Geol. Obs. S. Austr. 1862, p. 380; Krefft, Geol. Mag. 1865, ii. p. 572.                                                                                                                                                                                                                                                                                                                | Wellington Valley Caves, N. S. Wales. |
| Genus <i>Hypsiprymnus</i> , <i>Illiger</i> , 1811. (Prod. Syst. Mam. et Avium, p. 79; Waterhouse, Nat. Hist. Mam. 1846, i. p. 190.)— <i>Perphaga-Macropodidæ</i> . |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| <i>H. spelæus</i> , <i>Owen</i> .                                                                                                                                  | Cave-breccia.        | *Descrip. Cat. Mam. Aves, R. Coll. Surgeons, 1845, pp. 332, 333, nos. 1536—1539; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 60; d'Archiac, Faune Quarternaire, 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 364.                                                                                                                                                                                                                                                                       | Wellington Valley Caves, N. S. Wales. |
| <i>H. trisulcatus</i> , <i>M'Coy</i> .                                                                                                                             | Cave Deposit.        | Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mt. Macedon Cave, Vict.               |
| Genus <i>Leptosiagon</i> , <i>Owen</i> , 1873. (Pro. Roy. Soc. xxi. p. 386.)— <i>Perphaga-Macropodidæ</i> .                                                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| <i>L. gracilis</i> , <i>Owen</i> .                                                                                                                                 | Quaternary Deposits. | *Phil. Trans. CLXIV. pt. 2, p. 785, t. 76, figs. 11—15; *Extinct Mam. of Australia, 1877, pp. 450, 451, t. 89, f. 11—15.                                                                                                                                                                                                                                                                                                                                                                 | Queensland.                           |

(Marsupialia.)

(Post Tertiary.)

| Genus and Species.                                                                                  | Strat. Subdivision.                                      | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Localities, &c.                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genus <i>Macropus</i> , Shaw, 1800. (Gen. Zoology, i. pt. 2, p. 505.)— <i>Pæphaga-Macropodidæ</i> . |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                           |
| <i>M. affinis</i> , Owen.                                                                           | Quaternary Deposits.                                     | *Descrip. Cat. Mammalia and Aves, R. Coll. Surgeons, 1845, p. 328; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 59; d'Archiac, Faune Quatern. 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 363; Owen, Proc. R. Soc. 1873, xxi. p. 128; <i>ibid.</i> *Phil. Trans. 1874, clxiv. p. 260, t. 23, figs. 10 and 11; Phil. Trans. clxvi. p. 217, t. 29, f. 6, t. 30, f. 7—9; *Extinct Mam. Australia, 1877, pp. 411, 412, 498, t. 83, f. 10 and 11, t. 116, f. 6, t. 117, f. 7—9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condamine River, Qu.                                                                                                                                                      |
| <i>M. Ajax</i> , Owen.                                                                              |                                                          | Quart. Jour. Geol. Soc. 1859, xv. p. 158, note.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Darling Downs, Qu.                                                                                                                                                        |
| <i>M. Anak</i> , Owen.                                                                              |                                                          | Vide <i>Protemnodon Anak</i> , Owen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                           |
| <i>M. Atlas</i> , Owen.                                                                             |                                                          | Vide <i>Sthenurus Atlas</i> , Owen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                           |
| <i>M. Ferragus</i> , Owen.                                                                          |                                                          | Vide <i>Pachysiagon Ferragus</i> , Owen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                           |
| <i>M. Goliath</i> , Owen.                                                                           |                                                          | Vide <i>Procoptodon Goliath</i> , Owen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                           |
| <i>M. Titan</i> , Owen.                                                                             | Cave-breccia; Lacustrine, Quaternary and River Deposits. | *Mitchell's Three Expds. Int. E. Austr. 1838, ii. p. 359, t. 29, figs. 3, 6, and 8; *Brit. Assoc. Rept. 1844, p. 236; Odontog. i. p. 392, ii. t. 101, figs. 1 and 2; *Deser. Cat. Mam. Aves, R. Coll. Surgeons, 1845, p. 324, <i>et seq.</i> t. 6, f. 7; Waterhouse, *Nat. Hist. Mams. 1846, i. p. 58; ?Hobson, Tas. Jour. ii. p. 208; d'Archiac, Hist. Progrès de la Géol. 1848, ii. pt. 1, p. 47; Owen, *Palæontology, 1860, p. 394; M'Coy, Ex. Essay, 1861, p. 168; Woods, *Geol. Obs. S. Austr. 1862, p. 378; M'Coy, Annals Nat. Hist. 1862, ix. p. 145, <i>id. ibid.</i> 1867, xx. p. 191; d'Archiac, Faune Quaternaire, 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 364; Daintree, Quart. Jour. Geol. Soc. 1872, xxviii. p. 274; Owen, Proc. R. Soc. 1873, xxi. p. 128; <i>ibid.</i> *Phil. Trans. 1874, clxiv. pt. 1, p. 248, t. 20, f. 29; t. 21, figs. 6—18; t. 22, figs. 10—18; t. 23, figs. 2 and 3, 12 and 13; t. 26, figs. 9—15; <i>ibid.</i> pt. 2, p. 783, t. 76, figs. 1—6; M'Coy, Smyth's Progress Rept. 1874, p. 36; <i>id. ibid.</i> 1876, iii. | Wellington Valley Caves, N. S. Wales.<br>Lake Timboon;<br>Duck Ponds, Vict.<br>Mt. Burr Caves, S. Australia.<br>Condamine River;<br>Darling Downs;<br>Maryvale Creek, Qu. |

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.        | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                              | Localities, &c.                       |
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|                           |                      | p. 74; Owen, Phil. Trans. clxvi. pp. 204—209, t. 25, f. 1 and 4, t. 26, f. 1 and 2, t. 27; McCoy, in Couchman's Progress Report, 1877, iv. p. 156; Owen, Extinct Mam. of Australia, 1877, pp. 400—411, 435—439, 489—490, 498, Atlas, t. 76, f. 1—4, t. 77, f. 1 and 2, t. 78, f. 1 and 2, t. 79, f. 1 and 2, t. 80, f. 29, t. 81, f. 6—18, t. 82, f. 10—18, t. 83, f. 2 and 3, 12 and 13, t. 86, f. 9—15, t. 89, f. 1—6, t. 112, t. 113, t. 118, f. 1—7. |                                       |
| <i>M. sp. ind.</i> (1).   | Cave-breccia.        | Owen, *Mitchell's Three Expds. Int. E. Austr. 1838, ii. p. 360, nos. iii. a, b; Woods, *Geol. Obs. S. Austr. 1862, p. 379; Krefft, Geol. Mag. 1865, ii. p. 572.                                                                                                                                                                                                                                                                                          | Wellington Valley Caves, N. S. Wales. |
| <i>M. sp. ind.</i> (2).   | Cave-breccia.        | Owen, Mitchell's Three Expds. Int. E. Austr. 1838, ii. p. 360, no. 4; ? <i>Halmaturus</i> , Krefft, Geol. Mag. 1865, ii. p. 572; Woods, *Geol. Obs. S. Austr. 1862, p. 379.                                                                                                                                                                                                                                                                              | Wellington Valley Caves, N. S. Wales. |
| <i>M. sp. ind.</i> (3).   | Quaternary Deposits. | Owen, *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 326, no. 1517 (? = <i>Macropus laniger</i> , Q. and G.).                                                                                                                                                                                                                                                                                                                                 | Condamine River, Qu.                  |
| <i>M. sp. ind.</i> (4—6). | Cave-breccia.        | Owen, *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 328, nos. 1521—1523.                                                                                                                                                                                                                                                                                                                                                                     | Wellington Valley Caves, N. S. Wales. |
| <i>M. sp. ind.</i> (7).   | Cave Deposit.        | McCoy, Geol. Surv. Vict. $\frac{1}{2}$ sheet 7, N. W. note.                                                                                                                                                                                                                                                                                                                                                                                              | Mt. Macedon Cave, Vict.               |
| <i>M. sp. ind.</i> (8).   |                      | Owen, Extinct Mam. of Australia, 1877, t. 114.                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |

Genus *Nototherium*, Owen, 1845 (see p. 173).—*Carpophaga-Phalangistidæ*.

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| <i>N. inerme</i> , Owen. | Quaternary Deposits. | *Brit. Assoc. Rept. for 1844, p. 231; Odontog. i. p. 396, ii. t. 90, f. 4; Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 303; *Descr. Cat. Mam. Aves, R. Coll. Surgeons, 1845, pp. 314—323, t. 8; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 237; Owen, *Quart. Jour. Geol. Soc. 1859, xv. p. 176—185, t. 9, f. 3; Hochstetter, Sitz. K. Akad. Wissensch. Wien, 1859, xxxv. p. 351; <i>id.</i> Verhandl. Jahrbuch, K. K. Geol. Reichsanstalt, 1864, xiv. p. 37; d'Archiac, Faune Quaternaire, 1865, p. 272; | Condamine River; King's Creek, Darling Downs, Qu. |
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## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.          | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Localities, &c.                                                 |
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| N. <i>Mitchelli</i> , Owen. | Quaternary Deposits. | Murray, Geogr. Dist. Mam. 1866, p. 363; Owen, Proc. R. Soc. xix. p. 494; <i>ib.</i> *Phil. Trans. 1872, clxii. pp. 41 and 63, t. 8, t. 9, f. 5; <i>id.</i> Extinct Mam. of Australia, 1877, pp. 271—272, &c. p. 514, t. 42, t. 43, f. 5, t. 88, f. 15—17, t. 125.<br>*Brit. Assoc. Report, 1844, p. 232; Odontography, i. p. 396; *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 316, no. 1506, t. 9; Waterhouse, *Nat. Hist. Mam. i. p. 239; ? <i>N. Mitchelli</i> , Owen, *Quart. Jour. Geol. Soc. 1859, xv. pp. 176—185, t. 9, f. 1, 2, 4 and 5; Hochstetter, Sitz. K. Akad. Wissen. Wien, 1859, xxxv. p. 35; <i>id.</i> Verhandl. Jahrbuch, K. K. Geol. Reichsanstalt, 1864, xiv. pp. 36 and 37; Murray, Geogr. Dist. Mam. 1866, p. 363; ? <i>Thylacoleo carnifex</i> , M'Coy (non Owen), *Annals Nat. Hist. 1865, xvi. p. 448; <i>N. Mitchelli</i> , d'Archiac, Faune Quaternaire, 1865, p. 272; <i>id.</i> Owen, *Annals Nat. Hist. 1866, xviii. p. 475, t. 16; <i>id.</i> <i>ibid.</i> Proc. R. Soc. xix. p. 494; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1872, clxii. p. 41, t. 2, f. 1 and 2, t. 3, f. 1 and 3, t. 4, f. 5 and 6, t. 9, f. 1—4, 6—8, t. 10, f. 1—3, 7 and 8, t. 11; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 249—269, p. 272 <i>et seq.</i> p. 514, <i>cut.</i> f. 1, p. 250, <i>cut.</i> f. 2, p. 269, Atlas, t. 36, f. 1 and 2, t. 37, f. 1—3, t. 38, t. 39, t. 40, t. 43, f. 1—4, 6—8, t. 44, f. 1—3, 7 and 8, t. 45, t. 88, f. 11—14. | King's Creek; Condamine River; Gowrie Creek, Darling Downs, Qu. |
| N. <i>Victoriae</i> , Owen. | Lacustrine Deposits. | *Phil. Trans. 1872, clxii. p. 61, t. 7, t. 10, f. 4—6; *Extinct Mam. of Australia, 1877, pp. 269—71, p. 513, Atlas, t. 41, t. 44, f. 4—6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lake Victoria, S. Australia.                                    |
| O. <i>Cooperi</i> , Owen.   |                      | Proc. R. Soc. 1873, xxi. p. 128; *Phil. Trans. 1874, clxiv. p. 261, t. 24, f. 17 and 18; *Extinct Mam. of Australia, 1877, p. 412, t. 84, f. 17 and 18.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Darling Downs, Qu.                                              |

Genus *Osphranter*, Gould, 1841. (Proc. Zool. Soc. pt. ix. p. 80.)  
*Perphaga-Macropodidae*.

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                | Strat. Subdivision. | References.                                                                                                                                                              | Localities, &c. |
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| <i>O. Gouldii</i> , <i>Owen</i> . |                     | Proc. R. Soc. 1873, xxi. p. 128;<br>*Phil. Trans. 1874, clxiv. p. 261,<br>t. 23, f. 15 and 16; *Extinct<br>Mam. of Australia, 1877, pp.<br>413—414, t. 83, f. 15 and 16. |                 |

Genus **Pachysiagon**, *Owen*, 1873. (Proc. R. Soc. xxi. p. 386; Phil. Trans. clxiv. p. 784.)—*Pæphaga-Macropodidæ*.

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| <i>P. Ferragus</i> , <i>Owen</i> . | Quaternary Deposits. | <i>Macropus</i> , *Phil. Trans. clxiv. pt. 2, p. 784, t. 81, f. 4, t. 82, f. 3 and 4, t. 83, f. 3; <i>Pachysiagon</i> , *Extinct Mam. Australia, 1877, pp. 449—450, t. 96, f. 4, t. 97, f. 3 and 4, t. 105, f. 3. |
| <i>P. Otuel</i> , <i>Owen</i> .    |                      | *Phil. Trans. clxiv. pt. 2, p. 784, t. 76, f. 7—10.                                                                                                                                                               |

Genus **Palorchestes**, *Owen*, 1873. (Proc. R. Soc. xxi. 386; Phil. Trans. clxiv. p. 797.)—*Pæphaga-Macropodidæ*.

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| <i>P. Azael</i> , <i>Owen</i> . | Quaternary Deposits. | *Phil. Trans. clxiv. pt. 2, p. 798, t. 81, f. 1 and 2, t. 82, f. 1 and 2, t. 83, f. 1; * <i>ibid.</i> clxvi. p. 197, t. 19, t. 20, t. 21, t. 22, f. 1—4, t. 23, f. 1, 2, and 5, t. 24, t. 29, f. 1—3; *Extinct Mam. of Australia, 1877, pp. 466—470, p. 500, t. 96, f. 1 and 2, t. 97, f. 1 and 2, t. 105, f. 1, t. 106, t. 107, t. 115, f. 1, 2 and 5, t. 116, f. 1—3, t. 129, t. 130, f. 1—4, t. 131. |
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Genus **Peragalea**, *J. E. Gray*<sup>1</sup>, 1841. (In Grey's Jour. Two Expeds. N. and N. W. Australia, ii. p. 401; *Macrotilis*, Waterhouse, Nat. Hist. Mam. 1846, i. p. 358.)  
*Entomophaga-Peramelidæ*.

|                    |               |                                         |                                       |
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| <i>P. sp. ind.</i> | Cave-breccia. | Kreffit, Aust. Vertebrata, 1871, p. 21. | Wellington Valley Caves, N. S. Wales. |
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Genus **Perameles**, *Geoffroy*, 1804 (Ann. Muséum, iv. pp. 56 and 59; Waterhouse, Nat. Hist. Mam. 1846, i. p. 256) = *Isodon*, Desmarest.  
*Entomophaga-Peramelidæ*.

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| <i>P. nasuta</i> , <i>Geof.</i> | Cave-breccia. | * <i>l. c.</i> p. 62, t. 44; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 374; <i>P. nasuta</i> ? Krefft, Australian Vert. 1871, p. 21. | Wellington Valley Caves, N. S. Wales. |
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<sup>1</sup> Written by Gray *Paragalia*.

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.        | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                   | Localities, &c.                       |
|---------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <i>P. obesula</i> , Shaw. | Cave-breccia.       | <i>Didelphis</i> , *General Zool. 1800, i. pt. 2, p. 490; <i>Perameles</i> , Geoffroy, Ann. Muséum, iv. p. 64, t. 45; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 368; <i>id.</i> M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>P. obesula</i> ? Krefft, Austr. Vert. 1871, p. 21. | Wellington Valley Caves, N. S. Wales. |
| <i>P. sp. ind.</i>        | Cave-breccia.       | Krefft, Geol. Mag. 1865, ii. p. 573.                                                                                                                                                                                                                                                                          | Wellington Valley Caves, N. S. Wales. |

Genus *Phalangista*, Cuvier, 1799 or 1800? (Leçons d'Anatomie Comparée, i. Tab. Général; Waterhouse, Nat. Hist. Mam. 1846, i. p. 265.)  
*Carpophaga-Phalangistidæ.*

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| <i>P. fuliginosa</i> , Ogilby. | Subfossil?    | *Proc. Zool. Soc. 1831, p. 135, Waterhouse, *Nat. Hist. Mam. 1846, i. p. 288; Krefft, Trans. R. Soc. N. S. Wales, for 1867 (1868), i. p. 32.                                                                                                                                                                                                                                                                   | Glenorchy Cave, Tas.                   |
| <i>P. vulpina</i> , Shaw.      | Cave-deposit. | <i>Didelphis</i> , *General Zool. 1800, i. pt. 2, p. 503; <i>Phalangista</i> , Temminck, Mon. Mammologie, 1827, i. p. 5; <i>id.</i> Owen, Odontog. i. p. 383, ii. t. 100, f. 1; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 284; <i>id.</i> M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>id.</i> Krefft, Austr. Vert. 1871, p. 18; <i>id. ibid.</i> Mam. of Australia, 1871, t. 8. | Mt. Macedon Cave, near Gisborne, Vict. |
| <i>P. sp. ind.</i>             | Cave-breccia. | Owen, Mitchell's *Three Expds. Int. E. Austr. 1838, ii. p. 361, nos. 7, <i>a</i> and <i>b</i> (2 <i>sp.</i> ); Waterhouse, *Nat. Hist. Mam. 1846, i. p. 353; Woods, Geol. Obs. S. Austr. 1862, p. 380; Krefft, Geol. Mag. 1865, ii. p. 572.                                                                                                                                                                    | Wellington Valley Caves, N. S. Wales.  |

Genus *Phascolagus*, Owen, 1873. (Pro. Roy. Soc. xxi. p. 128.)  
*Porphaga-Macropodidæ.*

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|-------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <i>P. altus</i> , Owen. | Cave-breccia and Quaternary Deposits. | <i>Macropus Titan</i> , Owen, Mitchell's *Three Expds. Int. E. Austr. 1838, ii. t. 29, figs. 4 and 5 (non figs. 3, 6 and 8); <i>P. altus</i> , Owen, *l. c. p. 128; <i>id.</i> *Phil. Trans. 1874, clxiv. p. 261, t. 22, figs. 1 and 2; * <i>id. ibid.</i> clxvi. p. 218, t. 30, f. 1—6; * <i>id.</i> Extinct Mam. of Australia, 1877, pp. 414 and 498, t. 82, f. 1 and 2, t. 111, t. 117, f. 1—6. | Wellington Valley Caves, N. S. Wales; also in Queensland. |
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## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                                                                                                                                                                                          | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Localities, &c.                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Genus <i>Phascolomys</i> , <i>Geoffroy</i> , 1803 (Ann. Muséum, Hist. Nat. ii. p. 365 ; Waterhouse, Nat. Hist. Mam. 1846, i. p. 242) = <i>Vombatus</i> , <i>Geoff.</i><br><i>Rhizophaga-Phascolomidee</i> . |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |
| <i>P. gigas</i> , <i>Owen</i> .                                                                                                                                                                             | Quaternary Deposits. | <i>Extinct Wombat</i> , Trans. Zool. Soc. iii. p. 306 ; <i>P. gigas</i> , Encyclop. Brit. 1859, xvii. p. 175, f. 114 ; <i>id.</i> Palæontology, 1860, p. 395, f. 140 ; <i>id. ibid.</i> 2nd ed. 1861, p. 431, f. 172 ; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 271 ; <i>id.</i> Owen, Proc. R. Soc. 1872, xx. p. 306 ; <i>P. (Phascolonus)</i> Owen, Phil. Trans. 1872, clxii. pp. 248—254, t. 36, t. 38, f. 1, 3 and 4 ; <i>id. ibid.</i> Extinct Mam. of Australia, 1877, pp. 346—353, t. 61, t. 62, t. 63, f. 1, 3 and 4, t. 64, f. 1—3, t. 65.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Eton Vale ; Drayton Station ; Clifton Plains, &c., Qu. |
| <i>P. krefftii</i> , <i>Owen</i> .                                                                                                                                                                          | Cave-breccia.        | Proc. R. Soc. 1872, xx. p. 66 ; *Phil. Trans. 1872, clxii. p. 178, t. 17, f. 2 and 6, t. 19, f. 3, t. 20, f. 2 ; t. 22, f. 6 and 7, t. 23, f. 4 and 5 ; *Extinct Mam. of Austr. 1877, p. 319, p. 353, t. 50, f. 2 and 6, t. 52, f. 6 and 7, t. 53, f. 3, t. 54, f. 2, t. 56, f. 4 and 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wellington Valley Caves, N. S. Wales.                  |
| <i>P. latifrons</i> , <i>Owen</i> .                                                                                                                                                                         | Cave-breccia.        | *Proc. Zool. Soc. 1845, p. 82 ; *Trans. <i>ibid.</i> 1849, iii. p. 303, t. 37, f. 4—7 ; Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 334 ; <i>Lasiiorhinus</i> , <i>McCoyi</i> , Gray, *Annals Nat. Hist. 1863, xi. p. 458 ; <i>P. latifrons</i> , Murie, Proc. Zool. Soc. 1865, p. 844, f. 1 ; <i>Lasiiorhinus (Phas.) id. ibid.</i> p. 854, t. 47 ; <i>Phascolomys, id. ibid.</i> 1867, p. 807, f. 2, p. 811, f. 4 ; <i>id.</i> Krefft, Proc. Zool. Soc. 1872, p. 795 ; <i>id.</i> Owen, *Phil. Trans. 1872, clxii. pp. 176, 179, 180, 191, t. 19, f. 4, t. 20, f. 1, t. 21, f. 3 and 4, t. 22, f. 3—5, t. 23, f. 3—9, cuts, f. 4, f. 6 and f. 8 ; <i>id.</i> Trans. Zool. Soc. 1873, viii. pt. 6, pp. 346—358, t. 50, f. 4 and 7, t. 51, f. 5, t. 52, f. 5, t. 53, f. 1—5, t. 54, f. 3 and 5, t. 55, f. 3 and 4, t. 56, f. 3 and 5, t. 57, f. 3, 5 and 7 ; <i>id. ibid.</i> 1874, viii. pt. 7, pp. 483—497, t. 69, f. 1, 2, 5—12, t. 70, f. 1, 2, 5—10, t. 71, f. 1—3 and 7, t. 72, f. 1, 2, 5—9 and 11, t. 73, f. 1, 3, 5 and 7, t. 74 ; <i>id.</i> *Extinct Mam. of Australia, | Wellington Valley Caves, N. S. Wales.                  |

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.          | Strat. Subdivision.                    | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Localities, &c.                                                                            |
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|                             |                                        | 1877, pp. 317—332, p. 353, <i>cuts</i> , f. 4, p. 318, f. 6, p. 320, f. 8, p. 321, Atlas, t. 52, f. 3—5, t. 53, f. 4, t. 54, f. 1, t. 55, f. 3 and 4, t. 56, f. 3 and 9, t. 57, f. 1; t. 63, f. 2, t. 98, f. 1, 2, 5 and 12; t. 99, f. 1 and 2, 5—10, t. 100, f. 1—3 and 7, t. 101, f. 1 and 2, 5—9 and 11, t. 102, f. 1, 3, 5 and 7, t. 103, t. 127, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |
| <i>P. magnus</i> , Owen.    | Quaternary Deposits.                   | Proc. R. Soc. 1872, xx. p. 306; Murie, Proc. Zool. Soc. 1865, pp. 851—854; Owen, *Extinct Mam. of Austr. 1877, pp. 344, 346, 353, t. 60, f. 1—6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Eton Vale and Drayton Station, Darling Downs, Qu.                                          |
| <i>P. medius</i> , Owen.    | Quaternary Deposits and Cave-breccia.  | Proc. R. Soc. 1872, xx. p. 306; *Phil. Trans. 1872, CLXII, p. 241, t. 32, f. 2—7; t. 33, f. 2—6, t. 34, t. 35, f. 7; Owen, *Extinct Mam. of Austr. 1877, pp. 339—344, p. 353, Atlas, t. 57, f. 2—7, t. 58, f. 2—6, t. 59, t. 60, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Eton Vale and Drayton Station, Darling Downs, Qu.<br>Wellington Valley Caves, N. S. Wales. |
| <i>P. Mitchelli</i> , Owen. | Cave-breccia, and Quaternary Deposits. | Mitchell's *Three Expeds. Int. E. Austr. 1838, II. p. 362, t. 30, f. 4—6, nos. 8 <i>a—c</i> ; *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 333—334, nos. 1540, 1541, and 1542; Waterhouse, *Nat. Hist. Mam. 1846, I. p. 244; Woods, Geol. Obs. S. Austr. 1862, p. 381; <i>Phascolumys platyrhinus</i> (pars), Murie, Proc. Zool. Soc. 1865, p. 853; <i>P. Mitchelli</i> , d'Archiac, Faune Quaternaire, 1865, p. 271; <i>id.</i> Krefft, Geol. Mag. 1865, II. p. 573; <i>id.</i> Murray, Geogr. Distrib. Mam. 1866, p. 363; <i>id.</i> Owen, Proc. R. Soc. 1872, xx. p. 67; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1872, CLXII, pp. 177—179, 181, 182, 191, t. 17, f. 1—3 and 5, 7 and 8, t. 18, f. 1—7, t. 19, f. 5, t. 21, f. 5 and 6; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 318, 320, 322, 324, 332, 353, t. 50, f. 1, 3—5, 7 and 8, t. 51, f. 1—7, t. 53, f. 5, t. 55, f. 5. | Wellington Valley Caves, N. S. Wales.<br>Gowrie, Darling Downs, Qu.                        |
| <i>P. parvus</i> , Owen.    | Quaternary Deposits.                   | Proc. R. Soc. 1872, xx. p. 67; *Phil. Trans. 1872, CLXII, p. 193, t. 19, f. 6 and 7, t. 20, f. 6—8, t. 23, f. 6 and 7, t. 38, f. 5; *Extinct Mam. of Austr. 1877, pp. 334—335, 353, Atlas, t. 53, f. 6 and 7, t. 54, f. 6—8, t. 56, f. 6 and 7, t. 63, f. 5 and 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | King's Ck., Darling Downs, Qu.                                                             |

(Marsupialia.)

(Post Tertiary.)

| Genus and Species.                    | Strat. Subdivision.  | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Localities, &c.                                       |
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| <i>P. platyrhinus</i> , <i>Owen</i> . | Quaternary Deposits. | * <i>Osteol.</i> Cat. R. Coll. Surgeons, 1853, i. p. 334; <i>Murie</i> , Proc. Zool. Soc. 1865, p. 844, f. 3, p. 853; <i>id. ibid.</i> 1867, p. 799, t. 35, p. 806, f. 1, p. 811, f. 6; <i>Kreffit</i> , Proc. Zool. Soc. 1872, p. 796; <i>Owen</i> , Proc. R. Soc. 1872, xx. p. 67; * <i>Phil. Trans.</i> 1872, clxii. pp. 175, 180, 193, 197, t. 19, f. 2, t. 20, f. 3—5, t. 21, f. 2, t. 23, f. 1—8, <i>cuts</i> , f. 3, 5 and 7; <i>id.</i> <i>Trans. Zool. Soc.</i> 1873, viii. pt. 6, pp. 346—358, t. 50, f. 1, 2 and 5, t. 51, f. 1 and 2, t. 52, f. 1—3, t. 53, f. 6, t. 54, f. 2 and 4, t. 55, f. 2, t. 56, f. 1 and 4, t. 57, f. 1, 4 and 6; <i>id. ibid.</i> 1874, viii. pt. 7, pp. 483—497, t. 69, f. 3, 4 and 13, t. 70, f. 3 and 4, t. 71, f. 4—6 and 8, t. 72, f. 3, 4 and 10, t. 73, f. 2, 4 and 6; <i>id.</i> * <i>Extinct Mam. of Australia</i> , 1877, pp. 328—334, 353, <i>cuts</i> , f. 3, p. 316, f. 5, p. 320, f. 7, p. 321, <i>Atlas</i> , t. 52, f. 2, t. 53, f. 2, t. 54, f. 3—5, t. 55, f. 2, t. 56, f. 1 and 8, t. 58, f. 1, t. 98, f. 3, 4 and 13, t. 99, f. 3 and 4, t. 100, f. 4—6, t. 101, f. 3, 4 and 10, t. 102, f. 2, 4 and 6. | Eton Vale, Darling Downs, and Condamine R. <i>Qu.</i> |
| <i>P. Pliocenus</i> , <i>M'Coy</i> .  | Quaternary Deposits? | <i>Phascolomys</i> , <i>sp.</i> <i>Exhib. Essay</i> , 1861, p. 168; <i>id.</i> <i>Annals Nat. Hist.</i> 1862, ix. p. 145; <i>P. pliocenus</i> , <i>id.</i> 1867, xx. p. 190; <i>Smyth's Progress Report</i> , 1874, i. p. 36; * <i>Geol. Survey, Vict.</i> Dec. i. 1874, p. 21, t. 3, 4 and 5; <i>Smyth's Progress Report</i> , 1876, iii. p. 74.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bet-Bet Ck. <i>Vict.</i>                              |
| <i>P. Thomsoni</i> , <i>Owen</i> .    | Quaternary Deposits. | Proc. R. Soc. 1872, xx. p. 67; * <i>Phil. Trans.</i> 1872, clxii. p. 192, t. 18, f. 8 and 9, t. 21, f. 7; * <i>Extinct Mam. of Australia</i> , 1877, pp. 333 and 353, <i>Atlas</i> , t. 51, f. 8 and 9, t. 55, f. 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drayton Station, Darling Downs, <i>Qu.</i>            |

Genus *Plectodon*, *Kreffit*, 1871?—*Carpophaga-Phalangistidæ*.

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| <i>P. sp. ind.</i> |  | <i>Kreffit</i> , Australian Vertebrata, 1871, p. 19. |  |
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Genus *Procoptodon*, *Owen*, 1873. (Proc. R. Soc. xxi. p. 386; *Phil. Trans.* clxiv. p. 786.)—*Perphaga-Macropodidæ*.

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| <i>P. Goliath</i> , <i>Owen</i> . |  | <i>Macropus</i> , in Waterhouse's * <i>Nat. Hist. Mam.</i> 1846, i. p. 59; | Darling Downs, <i>Qu.</i> |
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(Marsupialia.)

(Post Tertiary.)

| Genus and Species.              | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                | Localities, &c. |
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| <i>P. pusio</i> , <i>Owen</i> . |                     | Murray, Geogr. Dist. Mam. 1866, p. 363; <i>Procoptodon</i> , Owen,*Phil. Trans. clxiv. pt. 2, p. 791, t. 79, t. 80; <i>id. ibid.</i> * <i>id.</i> clxvi. p. 222, t. 22, f. 5, t. 23, f. 3 and 4; <i>id. ibid.</i> *Extinct Mam. of Australia, 1877, pp. 460—465, 494, 502, Atlas, t. 92, f. 1—5, t. 94, t. 95, t. 115, f. 3 and 4, t. 118, f. 8—10, t. 121, t. 130, f. 5 ? |                 |
| <i>P. Rapha</i> , <i>Owen</i> . |                     | *Phil. Trans. clxiv. pt. 2, p. 788, t. 77, f. 2—7; * <i>ibid.</i> clxvi. p. 222, t. 31, f. 1—5, 10—12; *Extinct Mam. of Australia, 1877, pp. 454—457, Atlas, t. 89, f. 7—10, t. 90, f. 2—7, t. 91, t. 119, f. 1—5, 10—12.                                                                                                                                                  |                 |
|                                 |                     | *Phil. Trans. clxiv. pt. 2, p. 788, t. 77, f. 8—12, t. 78; * <i>ibid.</i> clxvi. p. 222, t. 31, f. 6—9; *Extinct Mam. of Australia, 1877, pp. 457—460, 483—485, 494, 502, Atlas, t. 90, f. 8—12, t. 93, t. 128, t. 119, f. 6—9.                                                                                                                                            |                 |

Genus **Protemnodon**, *Owen*, 1873. (Proc. R. Soc. xxi. p. 128.)  
*Pæphaga-Macropodidae*.

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| <i>P. Anak</i> , <i>Owen</i> .   | Cave-breccia;<br>Quaternary<br>Deposits. | <i>Macropus Atlas</i> , *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 325 and 327 (nos. 1513 and 1519); <i>Macropus Anak</i> , Quart. Jour. Geol. Soc. 1859, xv. p. 185; <i>Protemnodon</i> , Proc. R. Soc. 1873, xxi. p. 128; <i>id.</i> *Phil. Trans. 1874, clxiv. p. 275, t. 23, f. 4—9, t. 25, f. 1—4, 7—10 and 14; <i>id.</i> *Extinct Mam. of Australia, 1877, pp. 428—430, 449, 498, Atlas, t. 83, f. 4—9, t. 85, f. 1—4, 7—10 and 14, t. 120, f. 1—6. | Wellington Valley<br>Caves, N. S.<br>Wales.<br>Eton Vale, Darling<br>Downs, Qu.                        |
| <i>P. Antæus</i> , <i>Owen</i> . |                                          | *Extinct Mam. of Australia, 1877, p. 448, t. 88, f. 18, t. 110.                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                        |
| <i>P. Mimas</i> , <i>Owen</i> .  | Cave-breccia;<br>Quaternary<br>Deposits. | Proc. R. Soc. 1873, xxi. p. 128; *Phil. Trans. 1874, clxiv. p. 278, t. 24, f. 13—16, t. 26, f. 1—8, t. 27, f. 1—4 and 14; *Extinct Mam. of Australia, 1877, pp. 431—434, 447, 448, Atlas, t. 84, f. 13—16, t. 86, f. 1—8, t. 87, f. 1—4 and 14.                                                                                                                                                                                                                            | Wellington Valley<br>Caves, N. S.<br>Wales.<br>Gowrie Creek, and<br>Eton Vale, Dar-<br>ling Downs, Qu. |

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.       | Strat. Subdivision.  | References.                                                                                                                                                                  | Localities, &c.                           |
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| <i>P. Og, Owen.</i>      |                      | Proc. R. Soc. 1873, xxi. p. 128;<br>*Phil. Trans. 1874, clxiv.<br>p. 277, t. 25, f. 5—6, 11—13;<br>*Extinct Mam. of Australia,<br>1877, p. 430, t. 85, f. 5 and 6,<br>11—13. |                                           |
| <i>P. Rhæchus, Owen.</i> | Quaternary Deposits. | Proc. R. Soc. 1873, xxi. p. 128;<br>*Phil. Trans. 1874, clxiv.<br>p. 281, t. 27, f. 10—13; *Extinct Mam. of Australia, 1877,<br>p. 434, t. 87, f. 10—13.                     | Clifton Station,<br>Darling Downs,<br>Qu. |
| <i>P. sp. ind.</i>       |                      | Owen, Extinct Mam. of Australia,<br>1877, t. 120, f. 7 and 8.                                                                                                                |                                           |

Genus *Sarcophilus*, *F. Cuvier*, 1838 (see p. 173).—*Sarcophaga-Dasyuridæ*.

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| <i>S. lanianus, Owen.</i>  | Cave-breccia. | <i>Dasyurus</i> , Mitchell's *Three Expeds. Int. E. Australia, 1838, ii. p. 363, t. 31, f. 3—6; <i>id.</i> Odontography, i. p. 374; <i>id.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 334—335, nos. 1543—1547; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 452; <i>id.</i> Woods, Geol. Obs. S. Australia, 1862, p. 382; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 269; <i>id.</i> Murray, Geogr. Dist. Mam. 1866, p. 362; <i>Sarcophilus</i> , Owen, *Extinct Mam. of Australia, 1877, p. 105, t. 5, f. 1—6.                                                                                                                                                                                                                        | Wellington Valley Caves, N. S. Wales.                                           |
| <i>S. ursinus, Harris.</i> | Cave-breccia. | <i>Didelphis</i> , *Trans. Linn. Soc. ix. p. 176, t. 19, f. 2; <i>Dasyurus</i> , Temmink, Mon. d. Mammologie, 1827, i. p. 68, t. 68; <i>Diabolus</i> , Gray, in Grey's Jour. Two Expeds. N. W. and W. Australia, 1841, ii. p. 400; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 448; <i>Dasyurus</i> , Gould, Mam. of Australia, 1863, i. p. 55; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 269; <i>Diabolus</i> , McCoy, in Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>Dasyurus</i> , Owen, *Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 346; <i>Sarcophilus</i> , Krefft, Australian Vert. 1871, p. 21; <i>id.</i> Owen, *Extinct Mam. Australia, 1877, p. 105, Atlas, t. 13, f. 2, t. 14, f. 2, t. 15, f. 2, cut, f. 20, p. 103. | Wellington Valley Caves, N. S. Wales.<br>Mt. Macedon Cave, near Gisborne, Vict. |



## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                                                                                | Strat. Subdivision.                    | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Localities, &c.                                                                                                 |
|---------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>S. sp. ind.</i>                                                                                | Cave-breccia.                          | Kreffit, Geol. Mag. 1865, II. p. 573 (1 or more species).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wellington Valley Caves, N. S. Wales.                                                                           |
| Genus <i>Sthenurus</i> , Owen, 1873. (Proc. R. Soc. XXI. p. 128.)— <i>Peephaga-Macropodidae</i> . |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |
| <i>S. Atlas</i> , Owen.                                                                           | Cave-breccia, and Quaternary Deposits. | <i>Macropus</i> , *Mitchell's *Three Expeds. Int. E. Australia, 1838, II. p. 359, t. 29, f. 1; <i>id.</i> Odontography, I. p. 392, Atlas, t. 101, f. 3—5; <i>id.</i> *Brit. Assoc. Rep. 1844, p. 236; <i>id.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 325; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, I. p. 57; <i>id.</i> d'Archiac, Hist. Progrès de la Géol. 1848, II. pt. 1, p. 417; <i>id.</i> Owen, Palæontology, 1860, p. 394; ? <i>M. Athos</i> , Woods, Geol. Obs. S. Australia, 1862, p. 378; <i>M. Atlas</i> , d'Archiac, Faune Quaternaire, 1865, p. 270; <i>id.</i> Murray, Geogr. Dist. Mam. 1866, p. 363; <i>id.</i> M'Coy, Annals Nat. Hist. 1867, XX. p. 191; <i>Sthenurus</i> , Owen, Proc. R. Soc. 1873, XVI. p. 128; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1874, CLXIV. p. 265, t. 20, f. 30, t. 22, f. 3—9, t. 24, f. 4—9; <i>Macropus</i> , M'Coy, in Smyth's Progress Report, I. 1874, p. 36; <i>Sthenurus</i> , Owen, *Phil. Trans. CLXVI. p. 210, t. 25, f. 2 and 3, t. 26, f. 4; <i>Macropus</i> , M'Coy, in Couchman's Progress Report, IV. 1877, p. 158; <i>Sthenurus</i> , Owen, *Proc. Zool. Soc. 1877, p. 352, t. 38, f. 5—11; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 416—424, 439—442, 446, Atlas, t. 76, f. 2 and 3, t. 77, f. 4 and 5, t. 79, f. 4, t. 80, f. 30, t. 82, f. 3 and 9, t. 84, f. 4—9, t. 88, f. 1—4. | Wellington Valley Caves, N. S. Wales.<br>Condamine River, Darling Downs, Qu.<br>Duck Ponds, near Geelong, Vict. |
| <i>S. Brehus</i> , Owen.                                                                          | Cave-breccia.                          | Proc. R. Soc. 1873, XXI. p. 128; *Phil. Trans. 1874, CLXIV. p. 272, t. 27, f. 5—9; * <i>id.</i> CLXVI. p. 213, t. 28; *Proc. Zool. Soc. 1877, p. 352, t. 38, f. 12—17; *Extinct Mam. of Australia, 1877, pp. 424—427, 442—446, 494, Atlas, t. 87, f. 5—9; t. 88, f. 5—10, t. 92, f. 6 and 7, t. 108, t. 109, and t. 77, f. 7?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wellington Valley Caves, N. S. Wales.                                                                           |
| <i>S. minor</i> , Owen.                                                                           |                                        | *Proc. Zool. Soc. 1877, p. 353, t. 37, t. 38, f. 1—4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |

## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species.                                                                                                                                            | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Localities, &c.                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Genus <b>Thylacinus</b> , <i>Temminck</i> , 1827. (Mon. d. Mammologie, i. p. 60; Waterhouse, Nat. Hist. Mam. 1846, i. p. 453.)— <i>Sarcophaga-Dasyuridæ</i> . |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |
| <b>T. cynocephalus</b> ,<br><i>Harris</i> .                                                                                                                   | Cave-breccia.       | <i>Didelphis</i> , *Trans. Linn. Soc. ix. p. 174, t. 19, f. 1; <i>Thylacinus Harrisii</i> , Temminck, loc. cit. p. 63; <i>Thylacinus cynocephalus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 456; <i>id.</i> Owen, *Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 347; <i>Dasyurus</i> , Gould, *Mam. of Australia, 1863, i. p. 61; <i>Thylacinus</i> , Krefft, Australian Vertebrata, 1871, p. 21; <i>id. ibid.</i> *Mam. of Australia, 1871, t. 12; <i>id.</i> Owen, *Extinct Mam. of Australia, 1877, p. 106, t. 12, f. 2, t. 13, f. 3, t. 15, f. 3, cut, f. 5, p. 74. | Wellington Valley Caves, N. S. Wales. |
| <b>T. spelæus</b> , <i>Owen</i> .                                                                                                                             | Cave-breccia.       | <i>Dasyurus lanianus</i> (pars), Owen, Mitchell's *Three Expeds. Int. E. Australia, 1838, ii. p. 363, t. 31, f. 7; <i>T. spelæus</i> , <i>ilid.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 335, 336, nos. 1548 and 1549; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 455; d'Archiac, Faune Quaternaire, 1865, p. 269; Murray, Geogr. Dist. Mam. 1866, p. 362.                                                                                                                                                                                   | Wellington Valley Caves, N. S. Wales. |
| <b>T. sp. ind.</b>                                                                                                                                            | Cave-breccia.       | Krefft, Geol. Mag. 1865, ii. p. 573 (1 or more sp.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wellington Valley Caves, N. S. Wales. |

Genus **Thylacoleo**, *Owen*, 1858 (Proc. R. Soc. ix. p. 565) = *Schizodon*, Stutchbury (non Agassiz, nec Waterhouse).—*Carpophaga-Phalangistidæ*.

|                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                             |
|------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>T. carnifex</b> , <i>Owen</i> . | Cave-breccia, and Lacustrine Deposits. | <i>Schizodon</i> , sp. Stutchbury, Parl. Blue Book, Dec. 1854, p. 52, cuts, p. 54; <i>T. carnifex</i> , Owen, Proc. R. Soc. 1858, ix. p. 585; *Phil. Trans. 1859, CXLIX. pp. 309—322, t. 11, figs. 1—6, t. 13, figs. 1, 4 and 5, t. 14, f. 1, t. 15, f. 1; Encyclop. Brit. 1859, xvii. p. 175, f. 115; *Palæontology, 1860, p. 396, f. 141; <i>ibid.</i> 2nd ed. 1861, p. 432, f. 173; Falconer, *Quart. Jour. Geol. Soc. 1862, xviii. pp. 353 and 368, figs. 16—19; Krefft, Geol. Mag. 1865, ii. p. 574; d'Archiac, Faune Quaternaire, 1865, p. 269; Owen, Proc. R. Soc. 1865, xiv. p. 343; | Wellington Valley Caves, N. S. Wales.<br>Lake Columboolac, 80 miles S. W. of Melbourne, Vict.<br>Gowrie, Darling Downs, Qu. |
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## (Marsupialia.)

## (Post Tertiary.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Localities, &c. |
|--------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <i>T. sp. ind.</i> |                     | <p>*Phil. Trans. 1866, clvi. p. 73, t. 2, 3 and 4; Krefft, *Annals Nat. Hist. 1866, xviii. p. 148, t. 11, f. 1; Flower, *Quart. Jour. Geol. Soc. 1868, xxiv. p. 307; Falconer, *Pal. Mem. 1868, ii. p. 437; Krefft, Quart. Jour. Geol. Soc. 1870, xxvi. p. 415; Owen, Proc. R. Soc. 1870, xix. p. 95; <i>id.</i> *Phil. Trans. 1870, clx. p. 224; <i>id. ibid.</i> 1871, clxi. p. 213, t. 11, 12, 13, 14; Krefft, *Annals Nat. Hist. 1872, x. pp. 169 and 181, t. 11, f. 1—4, t. 12; M'Coy, *Geol. Survey, Vict. 1876, Dec. iii. p. 7, t. 21; *Extinct Mammals of Australia, 1877, pp. 107—188, <i>cuts</i>, f. 1, p. 149, f. 2 and 3, p. 150, f. 4, p. 151, f. 5, p. 152, f. 6—8, p. 153, f. 9 and 10, p. 154, f. 11 and 12, p. 155, f. 13, p. 165, f. 14 and 15, p. 168, f. 16—18, p. 170, f. 19, p. 174; Atlas, t. 6, f. 1, 6, 9, 10 and 12, t. 7, f. 1—14, t. 8, f. 1—6, t. 9, f. 1—9, t. 10, t. 11, t. 13, f. 1, 4—8, t. 14, f. 1, t. 15, f. 1, t. 16, t. 17, t. 18.</p> |                 |
|                    |                     | Krefft, Austr. Vert. 1871, p. 19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |

Genus *Zygomaturus*, Macleay, 1857? (Cat. Donations Australian Mus. Sydney, Aug. 1857?!)—*Carpophaga-Phalangistidæ*.

|                                    |                                                                                                                                                                                                                                                                                                                                                                                         |                                  |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <i>Z. trilobus</i> , Macleay.      | <p>*<i>loc. cit.</i>!; in Owen, Quart. Jour. Geol. Soc. 1858, xiv. p. 542; <i>id. ibid.</i> 1859, xv. p. 168; Macdonald, in Owen, <i>loc. cit.</i> p. 169; Owen, <i>loc. cit.</i> p. 170; ?<i>Nototherium Mitchelli</i>, Owen, <i>loc. cit.</i> t. 7, f. 1—4; Huxley, Quart. Jour. Geol. Soc. 1862, xviii. pp. 423 and 424, <i>note</i>; Krefft, Annals Nat. Hist. 1872, x. p. 180.</p> | King's Creek, Darling Downs, Qu. |
| <i>Z. Macleayi</i> , Krefft (ms.). | Austr. Vert. 1871, p. 19.                                                                                                                                                                                                                                                                                                                                                               |                                  |

Genus *Phascotomys*. Mr Krefft states that at least twenty species of Wombat existed in Australia during Post Pliocene times (*Austr. Vert.* p. 18).

## (Edentata—Rodentia.)

## (Post Tertiary.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
|--------------------|---------------------|-------------|-----------------|

## Section—Placentalia. Order—Edentata.

Genus *Mylodon*, Owen, 1840. (Zool. Voy. Beagle, pt. 1. Foss. Mams. p. 68.)  
*Bradypodidæ*.

|                                |                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| M.? <i>Australis</i> , Krefft. | Austr. Vert. 1871, p. 17; <i>Mylo-</i><br><i>don</i> ? sp. Annals Nat. Hist.<br>1872, x. p. 180. |
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## Order—Carnivora.

Genus *Canis*, Linnæus, 1735. (Syst. Nat.!)—*Digitigrada-Canidæ*.

|                       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                |
|-----------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| C. Dingo, Blumenbach. | Cave-breccia. | Handbuch, p. 103! Shaw, *General Zool. 1800, i. pt. 2, p. 277, t. 76; <i>C. familiaris</i> , var. <i>Australasia</i> , Gray, in Grey's Jour. Two Expeds. N. and N. W. Australia, 1841, i. p. 400; <i>C. dingo</i> , Owen, *Osteol. Cat. R. Coll. Surgeons, ii. pp. 692—694; Gray, List Mammalia Brit. Mus. 1843, p. 57; M'Coy, Exhib. Essay, 1861, p. 168; <i>id.</i> Annals Nat. Hist. 1862, ix. p. 145; <i>id.</i> Geol. Survey, Vict. $\frac{1}{2}$ sheet 7, N. W. note; <i>id.</i> Krefft, Trans. R. Soc. N. S. Wales, 1862—65, p. 3; Gould, *Mam. of Austr. 1863, iii. pp. 51 and 52; <i>left lower canine of Dingo</i> ? Krefft, Geol. Mag. 1865, ii. p. 574; Mivart, Proc. Zool. Soc. 1865, p. 579, f. 9; Krefft, Trans. R. Soc. N. S. Wales, 1868, i. pp. 32 and 34; Gray, Proc. Zool. Soc. 1868, p. 509; Krefft, *Mam. of Austr. 1871, t. 2; <i>Teeth of Dingo</i> ? <i>id.</i> Australian Vert. 1871, p. 17. | Wellington Valley Cave, N. S. Wales.<br>Mt. Macedon Cave, near Gisborne, Vict. |
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## Order—Rodentia.

The bones and teeth of six or more species of *Hapalitis* and *Mus* have been found in the Wellington Valley Caves, and exhibit characters by which they may be distinguished from the living forms of the same genera (Krefft, Aust. Vert. p. 17).

(Incertæ Sedis.)

(Incertæ Sedis.)

| Genus and Species. | Strat.<br>Subdivision. | References. | Localities, &c. |
|--------------------|------------------------|-------------|-----------------|
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## Incertæ Sedis

(including species to which either no definite geological horizon, locality, or systematic position can be assigned).

## Plantæ.

Genus **Austrella**, Dana, 1849. (Geol. U. S. Explor. Exped. p. 720.)

|                          |  |                                                         |                            |
|--------------------------|--|---------------------------------------------------------|----------------------------|
| <b>A. rigida</b> , Dana. |  | * <i>loc. cit.</i> p. 720, Atlas, t. 14, f. 7<br>and 8. | Newcastle, N. S.<br>Wales. |
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## Class—Actinozoa.

|                                    |  |                                                        |                            |
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| Corallites Wiltoni,<br>Leichhardt. |  | In Clarke, Quart. Jour. Geol. Soc.<br>1848, iv. p. 62. | Newcastle, N. S.<br>Wales. |
|------------------------------------|--|--------------------------------------------------------|----------------------------|

## Class—Crustacea (Malacostraca).

Genus **Thalassina**, Latreille, 1806. (Gen. Crust. et Insect. i. p. 51.)  
*Decapoda-Macrura.*

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|--------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>T. Emerii</b> , Bell. |  | Proc. Geol. Soc. 1844, iv. p. 360,<br><i>cut</i> ; <i>T. antiqua</i> , Bell, Annals<br>Nat. Hist. 1844, xiv. p. 455;<br><i>T. Emerii</i> , *Quart. Jour. Geol.<br>Soc. 1845, i. p. 93, <i>cut</i> ; <i>id.</i> et<br><i>T. antiqua</i> , Bronn, Index Pal.<br>(Nomen), p. 1265. | New Holland. |
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## Class—Reptilia (Amphibia).

Genus **Bothriceps**, Huxley, 1859. (Quart. Jour. Geol. Soc. xv. p. 647.)  
*Labyrinthodontia?*

|                               |  |                        |              |
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| <b>B. Australis</b> , Huxley. |  | * <i>l. c.</i> p. 647. | † Australia. |
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(Incertæ Sedis.)

(Incertæ Sedis.)

| Genus and Species. | Strat.<br>Subdivision. | References. | Localities, &c. |
|--------------------|------------------------|-------------|-----------------|
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## Class—Mammalia.

Genus **Mastodon**, Cuvier, 1806. (Ann. Museum, viii. p. 270.)—*Proboscidea*.

M. Australis, Owen. |

| Vide *Trilophodon*. |Genus **Trilophodon**, Falconer, 1857. (Quart. Jour. Geol. Soc. xiii. pp. 313, 316.)  
*Proboscidea*.

T. Australis, Owen. |

*Mastodon*, \*Annals Nat. Hist. 1844, xiv. p. 269, figs. 1 and 2; *id.* Hobson, Tas. Jour. ii. p. 208; *id.* Owen, Calcutta, Jour. Nat. Hist. 1845, v. p. 573, f. 1; *id.* d'Archiac, Progrès de la Géol. 1848, ii. pt. 1, p. 417; *id.* Strzelecki, Phys. Descr. N. S. Wales, 1845, p. 312; *Trilophodon Humboldtii*, Falconer (pars), Quart. Jour. Geol. Soc. 1857, xiii. p. 319 (Synop. table); *T. Andium* (Cuv.), *id.* Nat. Hist. Review, 1863, p. 96; *Mastodon Australis*, d'Archiac, Faune Quaternaire, 1865, p. 267; *T. Andium* (Cuv.), Falconer, Pal. Mems. 1868, ii. pp. 14 and 15, Synop. Table, note 1, p. 275, note 2; *M. Australis*, *ibid.* i. pp. 64 and 105.

## APPENDIX.

*Giving Species or References which have been published whilst the preceding pages have been passing through the press, and too late for insertion in their proper places; or, those which have been previously overlooked.*

## (Plantæ.)

## (Appendix.)

| Genus and Species. | Strat. Subdivision. | References. | Localities, &c. |
|--------------------|---------------------|-------------|-----------------|
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## Plantæ.

Genus **Clasteria**, Dana, 1847. (Geol. U. S. Expl. Exped. p. 719.) Vide *Vertebraria*.

C. *Australis*, Dana. | Vide *Vertebraria Australis*, McCoy.

Genus **Glossopteris**, Brongniart (see pp. 30 and 96).

|                              |                                                                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| G. <i>Browniana</i> , Brong. | See pp. 30 and 96; Feistmantel, Records Geol. Survey, India, 1877, x. pt. 3, p. 140, pt. 4, p. 203; <i>id.</i> Pal. Indica, 1877, ser. xi. No. 2, p. 9. |
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Genus **Tasmanites**, E. T. Newton, 1875 (Geol. Mag. Dec. 2, II. p. 341) = *Sporangites* (in part), Dawson.—*Cryptogamia-Lycopodiaceæ*.

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|-------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| T. <i>punctatus</i> , Newton. | Devonian or Carboniferous? | Milligan, Proc. R. Soc. V. D. Land, 1852, II. pp. 96 and 97; Archer, <i>ibid.</i> p. 511; <i>Particles or flakes</i> , Penny, <i>ibid.</i> 1855, III. p. 108; Moore, <i>ibid.</i> p. 177; <i>Discs</i> , Lee, <i>ibid.</i> p. 187; <i>Sporangia</i> , Balfour, Trans. R. Soc. Edinb. 1857, xxi. p. 193, Expl. pl. 2; <i>Resinous particles</i> , Gould, Report on Resinous Shales, R. Mersey, 1861, p. 3; Church, Chem. News, 1862, VI. p. 122; <i>Algæ</i> , Ralph, Trans. R. Soc. Vict. 1865, VI. p. 7; <i>Discs</i> , Carruthers, Geol. Mag. 1865, II. p. 439; <i>Scales</i> , Church, Phil. Mag. pp. 465, 466, f. 1—6; <i>Spores</i> , &c. Dawson, American Jour. Sc. 1871, CI. p. 257; <i>id.</i> Canadian | R. Mersey, Tas. |
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## (Animalia.)

## (Appendix.)

| Genus and Species. | Strat. Subdivision. | References.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Localities, &c. |
|--------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                    |                     | Nat. and Geol. 2nd ser. v. 1871, p. 371; <i>Spores</i> , &c. Huxley, Critiques and Addresses, no. 5, 1873, p. 103; <i>Sporangia</i> , Lyell, Student's Elements, 2nd ed. 1874, p. 405, f. 448 C and D; <i>Tasmanites punctatus</i> , E. T. Newton, *Geol. Mag. 1875, Dec. 2, II. pp. 337—342, t. 10, f. 1—9; <i>T. Australis</i> , Johnston, On <i>Tasmanite</i> , or Mersey Yellow Coal, &c., 1877, p. 6; Newton, Proc. R. Soc. Tas. for 1876 (1877), p. 4. |                 |

Genus **Vertebraria** (Royle), McCoy (see p. 101) = *Clasteria*, Dana.

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| V. <i>Australis</i> , McCoy. | See p. 101; <i>Clasteria Australis</i> , Dana, Geol. U. S. Expl. Exped. p. 719, Atlas, t. 14, f. 3—5; Clarke, S. Goldfields, 1860, 2nd ed. p. 285; <i>V. Australis</i> + <i>C. Australis</i> , Feistmantel, Records Geol. Survey, India, 1877, x. pt. 4, p. 199. |
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Genus **Zeugophyllites**, Brong. (see p. 101).

|                               |                                                                               |
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| Z. <i>elongatus</i> , Morris. | See p. 101; Feistmantel, Records Geol. Survey, India, 1877, x. pt. 4, p. 200. |
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## Animalia.

Genus **Purisiphonia**, Bowerbank, 1869. (Proc. Zool. Soc. 1869, p. 342; see p. 104.)  
*Rhizopoda-Spongida*.

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| P. <i>Clarkei</i> , Bowerbank. | See p. 104; *Proc. Zool. Soc. 1869, p. 342, t. 25, f. 6 and 7; Carter, *Annals Nat. Hist. 1878, I. p. 376. |
|--------------------------------|------------------------------------------------------------------------------------------------------------|

Genus **Goniograptus**, McCoy, 1876. (Annals Nat. Hist. XVIII. p. 130.)  
*Hydrozoa-Graptolitidae*.

|                             |                         |                                                                                                                                                                              |                            |
|-----------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| G. <i>Thureaui</i> , McCoy. | L. Sil. (Lland. Flags). | <i>Didymograptus</i> ( <i>Goniograptus</i> ), *loc. cit. p. 189, fig.; <i>Graptolites</i> ( <i>Didymograptus</i> ), *Geol. Survey, Vict. Dec. v. 1877, p. 39, t. 50, f. 1—4. | Sandhurst (Bendigo), Vict. |
|-----------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|



## (Animalia.)

## (Appendix.)

| Genus and Species.                                                                                                                                                                            | Strat. Subdivision.                 | References.                                                                                          | Localities, &c.                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|
| Genus <b>Ceratotrochus</b> , <i>Edwards and Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 248; Edwards, Hist. Nat. Corall. II. p. 73.)— <i>Actinozoa-Aporosa-Turbinolidæ</i> .             |                                     |                                                                                                      |                                  |
| <i>C. fenestratus</i> , <i>Tenison-Woods</i> .                                                                                                                                                | Tertiary.                           | Fide Tenison-Woods ( <i>in lit.</i> ).                                                               |                                  |
| Genus <b>Graphularia</b> , <i>Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxxiii.; Edwards, Hist. Nat. Corall. I. p. 216.)— <i>Actinozoa-Alcyonaria-Pennatulidæ</i> . |                                     |                                                                                                      |                                  |
| <i>G. Robinæ</i> , <i>McCoy</i> .                                                                                                                                                             |                                     | *Geol. Survey, Vict. Dec. v. 1877, p. 32, t. 48, f. 2—4 (compare <i>Belemnite senescens</i> , Tate.) | Waurin Ponds, nr. Geelong, Vict. |
| Genus <b>Platytrochus</b> , <i>Edwards and Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 246; Edwards, Hist. Nat. Corall. II. p. 71.)— <i>Actinozoa-Aporosa-Turbinolidæ</i> .              |                                     |                                                                                                      |                                  |
| <i>P. fissicostatus</i> , <i>Tenison-Woods</i> .                                                                                                                                              | Tertiary.                           | Fide Tenison-Woods ( <i>in lit.</i> ).                                                               |                                  |
| <i>P. planicostatus</i> , <i>Tenison-Woods</i> .                                                                                                                                              | Tertiary.                           | Fide Tenison-Woods ( <i>in lit.</i> ).                                                               |                                  |
| Genus <b>Salenia</b> , <i>Wright</i> (see p. 143).— <i>Echinodermata</i> .                                                                                                                    |                                     |                                                                                                      |                                  |
| <i>S. Tertiaria</i> , <i>Tate</i> .                                                                                                                                                           |                                     | See p. 143; Duncan, Annals Nat. Hist. 1878, II. p. 60.                                               |                                  |
| Genus <b>Buskia</b> , <i>Tenison-Woods</i> <sup>1</sup> , 1876. (Notes, Tertiary, Foss. Tas. p. 63.) <i>Polyzoa-Cheilostomata</i> .                                                           |                                     |                                                                                                      |                                  |
| <i>B. typica</i> , <i>Tenison-Woods</i> .                                                                                                                                                     | Table Cape Series (L. or M. Ter.?). | <i>loc. cit.</i> p. 63.                                                                              | Table Cape, Tas.                 |
| Genus <b>Atrypa</b> , <i>Dalman</i> (see p. 18).— <i>Brachiopoda</i> .                                                                                                                        |                                     |                                                                                                      |                                  |
| <i>A. reticularis</i> , <i>Linn.</i>                                                                                                                                                          | Up. Sil.                            | See p. 18; McCoy, *Geol. Survey, Vict. Dec. v. p. 25, t. 47, f. 1 and 2.                             | Yering, Vict.                    |
| Genus <b>Nucleospira</b> , <i>Hall</i> (see p. 20).— <i>Brachiopoda</i> .                                                                                                                     |                                     |                                                                                                      |                                  |
| <i>N. Australis</i> , <i>McCoy</i> .                                                                                                                                                          |                                     | See p. 20; *Geol. Survey, Vict. Dec. v. 1877, p. 27, t. 47, f. 7 and 8.                              |                                  |
| Genus <b>Pentamerus</b> , <i>J. Sowerby</i> (see p. 20).— <i>Brachiopoda</i> .                                                                                                                |                                     |                                                                                                      |                                  |
| <i>P. Australis</i> , <i>McCoy</i> .                                                                                                                                                          | Up. Sil. (May Hill Sandstone).      | See p. 20; *Geol. Survey, Vict. Dec. v. 1877, p. 28, t. 47, f. 9—12.                                 | Yering, Vict.                    |

<sup>1</sup> I have already pointed out in the *Geological Magazine* (Dec. 2, 1877, IV. p. 417 note), that Prof. Busk's name has been previously used in a generic sense by the late Mr Alder for a recent Polyzoan (see Alder, *Trans. Tyneside Nat. Field Club*, III. p. 156). It will in consequence be necessary for the author of the above genus to make some alteration in his name.

## (Animalia.)

## (Appendix.)

| Genus and Species.                                 | Strat. Subdivision.            | References.                                                                                                                                                                                                                           | Localities, &c.    |
|----------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Genus <i>Rhynchonella</i> , Fischer (see p. 21).   |                                |                                                                                                                                                                                                                                       |                    |
| <i>R. decemplicata</i> , <i>J. de C. Sowerby</i> . | Up. Sil. (May Hill Sandstone). | <i>Terebratulæ</i> , Sil. System, 1839, p. 641, t. 21, f. 17; <i>Rhynchonella</i> , Salter, *Mem. Geol. Survey, Gt. Brit. 1866, iii. p. 278; <i>R. (Hemithyris)</i> , M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 26, t. 47, f. 3—6. | Wallan, &c., Vict. |

Genus *Spirifera*, *J. Sowerby* (see p. 22).

|                                       |                     |                                                                                                                                                                                                                                   |               |
|---------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <i>S. plicatella</i> , <i>Linn.</i>   | Up. Sil. (Wenlock). | See p. 22; <i>S. plicatella</i> , var. <i>macropleura</i> (Conrad), M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 22, t. 46, f. 7 and 8.                                                                                           | Yering, Vict. |
| <i>S. sulcata</i> , <i>Hisinger</i> . | Up. Sil. (Wenlock). | <i>Delthyris</i> , * <i>Lethæa Suecica</i> , 1837, p. 73, t. 21, f. 6; <i>Spirifera</i> , Davidson, *Mon. Brit. Sil. Brach. p. 91, t. 10, f. 4—6; <i>id.</i> M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 23, t. 46, f. 9 and 10. |               |

Genus *Strophomena*, *Blainville* (see p. 22).—*Brachiopoda*.

|                                            |                     |                                                                                                         |               |
|--------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|---------------|
| <i>S. rhomboidalis</i> , <i>Wilckens</i> . | Up. Sil. (Wenlock). | See p. 22; <i>Leptaena (Leptagonia)</i> , M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 19, t. 46, f. 1. | Yering, Vict. |
|--------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|---------------|

Genus *Trematospira*, *Hall* (see p. 23).—*Brachiopoda*.

|                                      |  |                                                                                |  |
|--------------------------------------|--|--------------------------------------------------------------------------------|--|
| <i>T. formosa</i> , <i>Hall</i> .    |  | See p. 23; M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 22, t. 46, f. 7 and 8. |  |
| <i>T. liopleura</i> , <i>M'Coy</i> . |  | See p. 23; M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 21, t. 46, f. 2—5.     |  |

Genus *Pecten*, *O. F. Müller* (see p. 76).—*Pelecypoda*.

|                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          |
|-----------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <i>P. asperimus</i> , <i>La-march</i> . | Pliocene. | <i>Histoire Anim. sans Vertèb.</i> vi. p. 174; <i>G. B. Sowerby, jun. Thesaurus Conchyl.</i> i. p. 75, no. 94; <i>Reeve, Conch. Iconica</i> , 1855, viii. Mon. Genus <i>Pecten</i> , no. 75, t. 20, f. 75; <i>Adams, Genera</i> , 1858, ii. p. 551; <i>Tenison-Woods, Census, Marine Shells of Tasmania</i> , p. 33; ? = <i>P. Australis</i> , <i>G. B. Sowerby, jun. loc. cit.</i> p. 76, t. 19, f. 210 and 220; <i>id.</i> <i>Angas, Proc. Zool. Soc.</i> 1865, p. 656. | Government House Quarry, Adelaide, <i>S. Australia</i> . |
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## (Animalia.)

## (Appendix.)

| Genus and Species.                              | Strat. Subdivision. | References.                            | Localities, &c. |
|-------------------------------------------------|---------------------|----------------------------------------|-----------------|
| <i>P. Foulcheri</i> , <i>Tenison-Woods</i> .    |                     | Fide Tenison-Woods ( <i>in lit.</i> ). |                 |
| <i>P. Gambierensis</i> , <i>Tenison-Woods</i> . |                     | Fide Tenison-Woods ( <i>in lit.</i> ). |                 |

Genus *Bulla*, *Klein* (see p. 159).

|                                       |                 |                                                                                                                                                                                                             |                                            |
|---------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <i>B. oblonga</i> , <i>A. Adams</i> . | Raised Beaches. | Angas, Proc. Zool. Soc. 1867, p. 226; Hutton, *Cat. Marine Moll. N. Zealand, 1873, p. 52; Tenison-Woods, Census, Marine Shells of Tasmania, p. 24 (= <i>B. Australis</i> , of some authors, non Q. and G.). | Guichen Bay, and Lake Eliza, S. Australia. |
|---------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|

Genus *Cypræa*, *Linnaeus* (see p. 161).—*Gasteropoda*.

|                                         |                           |                                                                                        |                                |
|-----------------------------------------|---------------------------|----------------------------------------------------------------------------------------|--------------------------------|
| <i>C. consobrina</i> , <i>M'Coy</i> .   | Oligocene, or L. Miocene? | <i>Cypræa (Aricia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 36, t. 49, f. 2.        | Moorabool R., Vict.            |
| <i>C. contusa</i> , <i>M'Coy</i> .      | Oligocene.                | <i>Cypræa (Luponia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 37, t. 49, f. 3 and 4. | Mounts Eliza and Martha, Vict. |
| <i>C. leptorhyncha</i> , <i>M'Coy</i> . | Oligocene.                | <i>Cypræa (Luponia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 35, t. 49, f. 1.       | Mounts Eliza and Martha, Vict. |

Genus *Lunella*, *Bolten*, 1798. (Adams, Genera, Recent Moll. 1854, i. p. 54.)

|                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
|----------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <i>L. undulata</i> , <i>Chemnitz</i> . | Raised Beaches. | <i>Turbo</i> , Conch. Cab. x. t. 169, f. 1640—41!; Reeve, Conch. Iconica, 1847, iv. Mon. Genus Turbo, no. 3, t. 1, f. 3 a and b; <i>Lunella</i> , Adams, Genera, 1854, i. p. 324; <i>id.</i> Angas, Proc. Zool. Soc. 1865, p. 177; <i>id. ibid. id.</i> 1867, p. 213; <i>Turbo</i> , Hutton, Cat. Marine Moll. N. Zealand, 1873, p. 34; <i>id. v.</i> Martens, Critical List, Moll. N. Zealand, 1873, p. 30; <i>id.</i> Tenison-Woods, Census, Marine Shells of Tasmania, p. 15. | Australia. |
|----------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|

Genus *Natica*, *Adanson* (see p. 114).—*Gasteropoda*.

|                                           |  |                                        |  |
|-------------------------------------------|--|----------------------------------------|--|
| <i>N. polita</i> , <i>Tenison-Woods</i> . |  | Fide Tenison-Woods ( <i>in lit.</i> ). |  |
|-------------------------------------------|--|----------------------------------------|--|

Genus *Pleurotomaria*, *DeFrance* (see p. 85).—*Gasteropoda*.

|                                       |                            |                                                  |                    |
|---------------------------------------|----------------------------|--------------------------------------------------|--------------------|
| <i>P. Woodsii</i> , <i>Johnston</i> . | Devonian or Carboniferous? | On Tasmanite, or Mersey Yellow Coal, 1877, p. 8. | River Mersey, Tas. |
|---------------------------------------|----------------------------|--------------------------------------------------|--------------------|

## (Animalia.)

## (Appendix.)

| Genus and Species.                                                                                                                                                                                                                                               | Strat.<br>Subdivision.               | References.                                                                                                                                                                                            | Localities, &c.                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Genus <b>Rissoina</b> , <i>d'Orbigny</i> (see p. 114).— <i>Gasteropoda</i> .                                                                                                                                                                                     |                                      |                                                                                                                                                                                                        |                                               |
| <i>R. concatenata</i> , <i>Tenison-Woods</i> .                                                                                                                                                                                                                   | ?Table Cape Series (L. or M. Ter.?). | Proc. R. Soc. Tas. for 1876 (1877), p. 155.                                                                                                                                                            | Table Cape?, <i>Tas.</i>                      |
| Genus <b>Ceratodus</b> , <i>Agassiz</i> , 1838. ( <i>Poissons Foss.</i> iii. pp. 129 and 166; <i>Gunther</i> , <i>Phil. Trans.</i> 1871, <i>CLXI.</i> pt. 2, p. 514; <i>Miall</i> , <i>Mon. Sirenoid and Crossop. Ganoids</i> , 1872, p. 18.)— <i>Ganoidei</i> . |                                      |                                                                                                                                                                                                        |                                               |
| <i>C. sp. ind.</i>                                                                                                                                                                                                                                               | River Gravels? (P. Tertiary.)        | Clarke, <i>Remarks Sed. Formations N. S. Wales</i> , 1875, p. 60; <i>id.</i> <i>Mines and Min. Statistics</i> , N. S. Wales, 1875, p. 205; <i>Miall</i> , <i>Pal. Indica</i> , 1878, iv. no. 2, p. 17. | Darling Downs, <i>Queensland</i> .            |
| Genus <b>Thylacinus</b> , <i>Temminck</i> (see p. 194).— <i>Marsupialia</i> .                                                                                                                                                                                    |                                      |                                                                                                                                                                                                        |                                               |
| <i>T. major</i> , <i>Owen</i> .                                                                                                                                                                                                                                  | Cave-breccia.                        | <i>Dasyurus</i> , <i>sp.</i> <i>Mitchell's Two Expeds. Int. E. Austr.</i> 1838, p. 363, t. 31, f. 7; <i>Thylacinus</i> , <i>Foss. Mam. Australia</i> , p. 106, t. 5, f. 7—9.                           | Wellington Valley Caves, <i>N. S. Wales</i> . |

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<sup>1</sup> The note appended (p. 215) to one of Mr R. M. Johnston's papers, also applies here. The full paper will be found as above, pp. 91—116. R. E. JUN.

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